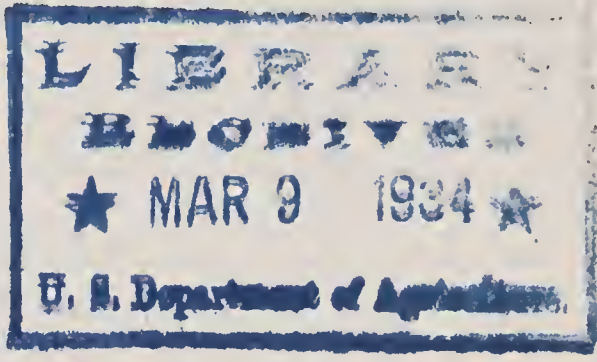


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1934 Catalog



VEGETABLE
SEED TRIALS
HORTICULTURE

Central Coal & Seed Co.

814 Idaho Street Phone 1 Boise, Idaho

To Friends and Patrons

In presenting our 1934 catalogue, we desire to express our appreciation for your former patronage and in these catalogued offerings we have endeavored to present to you only fresher seed at right prices from reliable growers and other lines of merchandise backed by growers and firms of established reputation.

ALL PRICES HEREIN QUOTED ARE SUBJECT TO MARKET CHANGES AND CROP CONDITIONS. WE FILL ALL ORDERS AT LOWEST MARKET PRICES.

WHEN AND HOW TO ORDER

Send in your combined orders for seeds, plants, supplies, etc., at once. We are prepared to fill orders as soon as this catalog reaches you. If you want part or all of your order held, state it distinctly with date when shipment is to be made. All orders for potatoes, plants, and other perishable goods are carefully booked on receipt, and filled in rotation as soon as weather permits. If shipped early, they are at buyer's risk.

Use Our Order Blanks—Fill out the spaces, giving postoffice and shipping point. It is best not to write letters on the same sheet as your order. *Do not forget to sign your name.*

Larger Orders—Any dealer, market gardener, institution or individual wishing seed in larger quantities, is requested to mail us a list of what is wanted, and we will promptly return it with the very lowest market prices. A letter of inquiry may save you dollars if you want to buy in quantity.

Prepay Stations—When you send in orders to go by freight or express, be sure that you add money enough to pay the charges if your station is a prepay point which is always the case where there is no regular agent.

Complaints or Praises—If you are well pleased with our goods and the manner of doing business, tell everyone. If you are not, tell us, so we can please you. Our best efforts will be put forth in filling all orders carefully and promptly in a way that will please you.

USE MONEY ORDERS, POSTOFFICE OR EXPRESS, BANK DRAFTS OR REGISTERED LETTERS

Stamps will be accepted on small orders.

BE SURE TO ORDER EARLY—BEFORE STOCKS ARE DEPLETED

NOTE—We use every precaution in procuring fresh, pure and reliable seeds, etc., but we, in common with other responsible seed houses, sell our goods subject to the following disclaimer, it being that adopted by the American Seed Trade Association, i. e.—We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, nursery stock, roots or plants sent out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are to be returned at once.

If you are in doubt about what you should do, or want any special information, be sure to write us. We will be pleased to give your inquiry our careful attention, and advise you to the full extent of our knowledge.

For 1932 we offer the standard varieties that are most satisfactory and profitable to the growers in our territory. We do not specialize in novelties but encourage the selection and improvement of varieties of known value.

Central Coal & Seed Co.

814 IDAHO STREET

Phone No. 1

BOISE, IDAHO

“STERLING” LAWN GRASS SEED

Lawn Grass Seed Postpaid

A smooth, velvety lawn surrounding a house adds not only to the value, but enhances the enjoyment of every home, whether it be in city, town or country. When properly made, a lawn is as satisfactory as any investment a home owner can make.

The most important thing to consider in selecting seed for lawn grass is to obtain a proper mixture of several varieties, for two reasons. First, each variety is at its best during a certain part of the season. By properly choosing early, medium and late grasses, a smooth, even, green lawn is assured from early Spring to late Autumn. Second, a given area can support only so many grass plants of one kind, for they all absorb the same sort of food; but if several varieties are sown, the same area will support many more plants, as different sorts live on various elements in the soil. This will give a much thicker and more luxuriant turf all over the lawn.

With these facts in mind our Sterling Lawn Grass Seed is scientifically combined. Our experience of many years has given us an intimate knowledge of grasses, their habits and requirements. In our Sterling Lawn Seed are included the best varieties—pure, clean and free from foul seed.

From early Spring until late in the Fall lawns sown with our Sterling Lawn Seed remain green and fresh, for the reason that this mixture includes quick growing varieties which are at their best soon after the frost is out of the ground, others that mature and flourish in Midsummer, and still others that are greenest and sturdiest in Autumn. For each of these reasons there are several different varieties living on different elements in the soil, so that one is certain always to have a satisfactory carpet of green wherever our Sterling Lawn Seed is sown, under favorable conditions. 1 lb. 40c.

POA TRIVIALIS

An ideal shade grass where it can have enough moisture. This grass is a perennial closely related to Kentucky Blue Grass, but somewhat finer and softer. It has splendid apple-green color and is a creeper. Sow in spring or fall at rate of 1 lb. to 300 square feet. 1 lb. 45c; 5 lbs. \$2.00.

CHEWING FESCUE

A fine grass for putting greens. Best seeded alone when used for greens. It is a perennial and makes a fine turf. Does well in sandy soils, and in the shade. Sow either in spring or fall at rate of 5 lbs. to 1,000 square feet. 1 lb. 40c; 5 lbs. \$1.90.

PACEY'S RYE GRASS

Good for both pastures and meadows. Moist and rich clays or loams are the soils best suited to it. Makes a good lawn grass where quick results are wanted. A strain selected for its greater yield. Sow in spring or fall. 1 lb. 30c; 5 lbs. \$1.40.

SHADY PLACE MIXTURE

On almost every lawn there are shady places where difficulty is experienced in getting grass to grow. These bare spots are very unsightly and disfigure the lawn. In such places proper seeding may be all that is required. In this mixture we have combined fine, dwarf growing, evergreen varieties which do well in sheltered or shaded spots. Some varieties of grass require more sun than others, therefore if the kinds which need the least sun are selected, those sorts when sown in shady places will thrive and make a good appearance. Frequently a shady lawn, which is at the same time insufficiently drained, becomes affected with moss and coarse bog grasses. In such an application of slacked lime at the rate of forty to fifty pounds to each thousand square feet is an excellent remedy; but the moss should be removed with a sharp rake. When this is done, sow our Shady Place Lawn Mixture, which will bring greenness to the bare spots and restore the beauty of your lawn. Of course, very densely shaded places are quite hopeless and no variety of grass can be made to flourish under such conditions. 1 lb. 40c; 5 lbs. \$1.90.

WHITE OR DUTCH CLOVER

A low, close growing Clover, round white heads, very fragrant. Very desirable for beautifying the lawn. It will stand close cutting and very rapidly throws up an abundance of leaves and blossoms. It is usually better to sow with other grass. Does well on most any soil. 1 lb. 50c; 5 lbs. \$2.25.

KENTUCKY BLUE GRASS

The mainstay for lawn making; our stock is extra fancy cleaned heavy seed. The purest and cleanest obtainable. 1 lb. 35c; 10 lbs. \$3.00.

RED TOP GRASS

Fancy recleaned solid seed; in popularity for lawn use it is a close second to Kentucky Blue Grass. 1 lb. 25c; 5 lbs. \$1.15.

CREEPING BENT GRASS—(Agrostis Stolonifera)

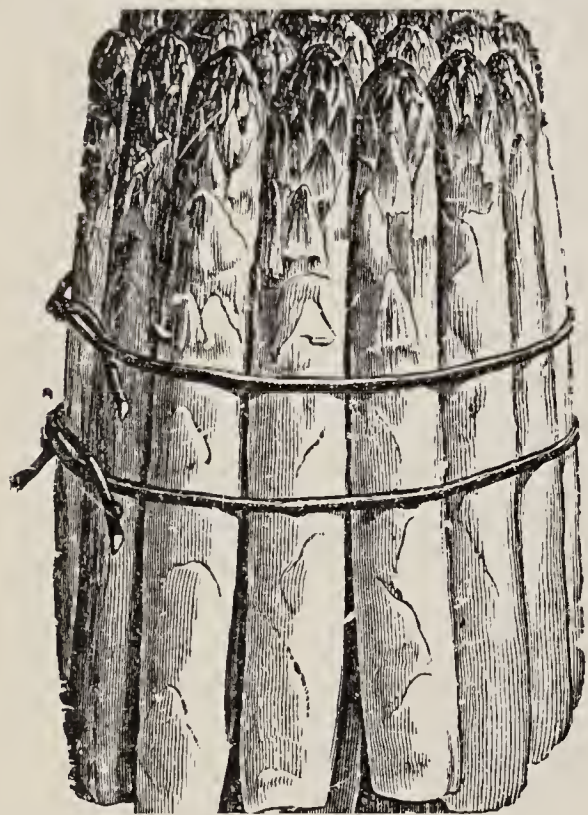
Distinctive on account of its compact, creeping, rooting stems. Of rapid growth and spreading habit, forming a strong, durable turf. Good for lawns and putting greens because of its fine texture. 1 lb. \$1.25; 5 lbs. \$6.00.

ASPARAGUS

To raise plants from seed about one pound per acre is required, or one ounce for about 800 plants. Sow early in the spring in drills 12 to 14 inches apart and thin to about 3 inches in the row. Allow plants to grow two full seasons and then transplant to permanent beds. It requires about 3000 plants to set an acre. When set out for crop, in the field or in beds, they require plenty of room, since the plants spread from the root, and therefore grow larger each year. In the field the rows should be from 6 to 10 feet apart and in the home garden 4 feet. During the spring all the shoots must be cut as fast as they reach the surface. Later in the season all the shoots should be allowed to run to seed, and in the autumn all the tops should be cut off and burned and the land thoroughly cleaned up, and a good dressing of manure and wood ashes and sand should be placed into the beds.

CONOVER'S COLOSSAL OR BOULDIN ISLAND

A standard variety for all purposes, especially for canning. Good also for home growing. It is the most popular variety formerly used on Bouldin Island and other river points in California, where it is canned in immense quantities. It makes large, thick, white shoots of delicious flavor and we recommend it as the best variety for all purposes. Pkt. 10c; oz. 15c; 1 lb. \$1.00, postpaid.



PALMETTO

Mammoth in size, light green, regular in growth and appearance. Usually ready for market before other varieties. Pkt. 10c; oz. 15c; 1 lb. \$1, postpaid.

MARY WASHINGTON

An improvement over the original Washington, being earlier, larger, fully as rust resistant. The long, heavy stalks have closely folded tips which do not sprangle out permanently. Pkt. 10c; oz. 15c; lb. \$1.35, postpaid.

ASPARAGUS ROOTS

Weight estimated at 5 lbs. per 100. Large, vigorous roots. 35c doz., postpaid; \$2.00 per 100; special price per 1000.

BEANS

CULTURE—The soil best adapted for growing beans is a light, rich, well-drained loam, which was well manured for the

previous crop. Plant in drills about two inches deep and from 18 inches to 2 feet apart, as soon as the ground is dry enough and warm—about May 1st, or later, and for succession up to July 15th. Plant about 1 lb. of Dwarf or Bush Beans to 100 feet of drill, 1 bushel per acre. Pole Beans—1 lb. to 100 hills, requiring about half bushel per acre.

PENCIL POD BLACK WAX

One of the best round pod wax beans, both for home use and market. Bushy growth about 15 inches high, heavy foliage. Pods 6 to 7 inches long, round as a pencil, clear yellow, very brittle and stringless; rich mild flavor. An early sure cropper of the finest quality. Pkt. 10c; ½ lb. 15c; 1 lb. 25c; 10 lbs. \$2.00, postpaid.

IMPROVED GOLDEN WAX

Very hardy and productive. A good second early variety of fine quality, but should be picked young to avoid strings. Postpaid, pkt. 10c; ½ lb. 15c; 10 lbs. \$2.00.

BOUNTIFUL

The plant is very handsome and of sturdy growth, being particularly immune to rust and mildew. It is very hardy, early and prolific and continues in bearing for several weeks. The pods are of immense size, rich green, thick, broad, extra long, solid, meaty, rich tender, and entirely free from string. ½ lb. 15c; 1 lb. 25c; 10 lbs. \$2.00, postpaid.

GIANT STRINGLESS GREEN POD

An excellent variety to follow Stringless Green Pod. The plants are of strong growth; pods meaty, brittle and stringless. Plant every two weeks until August 15th for succession. Postpaid, pkt. 10c; ½ lb. 15c; 1 lb. 25c; 10 lbs. \$2.00.



BURPEE'S STRINGLESS GREEN POD**Extra Early**

The finely shaped, long green pods are absolutely stringless, and are ready to market two weeks earlier than any other green-podded bean. A splendid dried brown bean. Postpaid, pkt. 10c; ½ lb. 15c; 1 lb. 25c; 10 lbs. \$2.00.

DWARF HORTICULTURAL**Or Bush Cranberry**

Very productive and compact in growth. Pods medium length, broad, thick, curved and splashed with red. Very desirable as a green shelled bean, maturing early. Seed large, oval, plump, splashed with bright red. Postpaid, pkt. 10c; ½ lb. 20c; 1 lb. 30c; 10 lbs. \$2.50.

RED KIDNEY

A very fine variety for baking. The favorite bean for chili con carne. Postpaid, pkt. 10c; ½ lb. 15c; 1 lb. 25c; 10 lbs. \$2.00.

BABY LIMA

Grows erect to a height of 18 to 20 inches and requires no support. Very early and productive. The beans have the true Lima flavor, rich, buttery and tender. These are two weeks earlier than most Dwarf beans. ½ lb. 10c; 1 lb. 15c; 10 lbs. \$1.40, postpaid.

BURPEE'S IMPROVED LIMA

This variety differs from the best strains of Burpee's in having much larger pods, while producing more beans. Pods and beans are not only larger in size, but are thicker. Grows vigorous; pods frequently borne in clusters of five to eight. ½ lb. 20c; 1 lb. 30c; 5 lbs. \$1.40, postpaid.

WHITE IDAHO**A Dwarf Bush Growing Only
One Foot High**

One of the finest dry beans grown. It leads all others, being three times the size of the Navy and half the size of the Lima. It is far superior to either for flavor. Postpaid, pkt. 10c; ½ lb. 15c; 1 lb. 25c; 10 lbs. \$2.00.

OREGON GIANT POLE BEAN

One of the best pole beans for the home garden. Stringless, with large fleshy pods of a light greenish yellow splashed with red, and keeps on producing until killed by frost. Pkt. 10c; ½ lb. 20c; 1 lb. 30c, postpaid.

POLE OR RUNNING VARIETIES**KENTUCKY WONDER**

(Old Homestead.) This climbing variety is very vigorous and productive and bears its pods in large clusters. The pods are green, very long, stringless and very crisp when young, and so fleshy that they are greater in width than breadth. This is one of the very best early pole snap beans for the home garden or market. Postpaid, pkt. 10c; ½ lb. 15c; 1 lb. 25c; 10 lbs. \$2.00.

GOLDEN POD KENTUCKY WAX

This vigorous wax podded Pole Bean is very similar to the green podded Kentucky Wonder, but the pods are a little broader. They are fleshy and stringless as snaps and are of excellent quality. The pods are very long, handsome light yellow. Its earliness and hardness commend it for northern latitudes. Postpaid, ½ lb. 20c; 1 lb. 30c

LAZY WIFE

Pods are from four to five inches in length, produced in large clusters in great abundance. Dark green, thick, fleshy and stringless. Postpaid, pkt. 15c; ½ lb. 20c; 1 lb. 30c.

SCARLET RUNNER

A favorite as a shell bean and for its flowers, which are bright scarlet seeds, broad and kidney shaped. Cooks in half time of any other. ½ lb. 20c; 1 lb. 35c.

KING OF THE GARDEN LIMA

The vines are very vigorous and prolific. Pods are of large size, filled with four or five large beans of very fine quality. The beans are easily shelled and of handsome appearance. A favorite with market gardeners. ½ lb. 20c; 1 lb. 30c; 5 lbs. \$1.40.

KOHL RABI

CULTURE—Sow seed in the Spring in drill ¾ of an inch deep and two feet apart and when the plants are a few inches high thin to 5 inches. Cultivate same as beets. Bulbs grow above ground. Root should be stripped and cook like turnips. Kohl Rabi has a much sweeter and finer flavor than the turnip. Sow in June for Fall use. Two pounds of seed required per acre.

EARLY WHITE

Very early, small, handsome, white bulb. Best early variety for the table. Pkt. 10c; oz. 20c; ¼ lb. 60c.

EARLY PURPLE

A very desirable sort for forcing or early outdoor planting. Bulbs are of medium size, purple, flesh white. Very early, with small top, the leaf stems being tinged with purple. Pkt. 10c; oz. 20c; ¼ lb. 60c.

BEETS

CULTURE—Sow seed one inch deep in rows 15 to 24 inches apart in fertile, well pulverized soil, using 5 or 6 lbs. of seed per acre. An ounce of it will grow 50 feet of drill. When a few inches high, thin to six or eight inches apart in the row.

EARLY BLOOD TURNIP

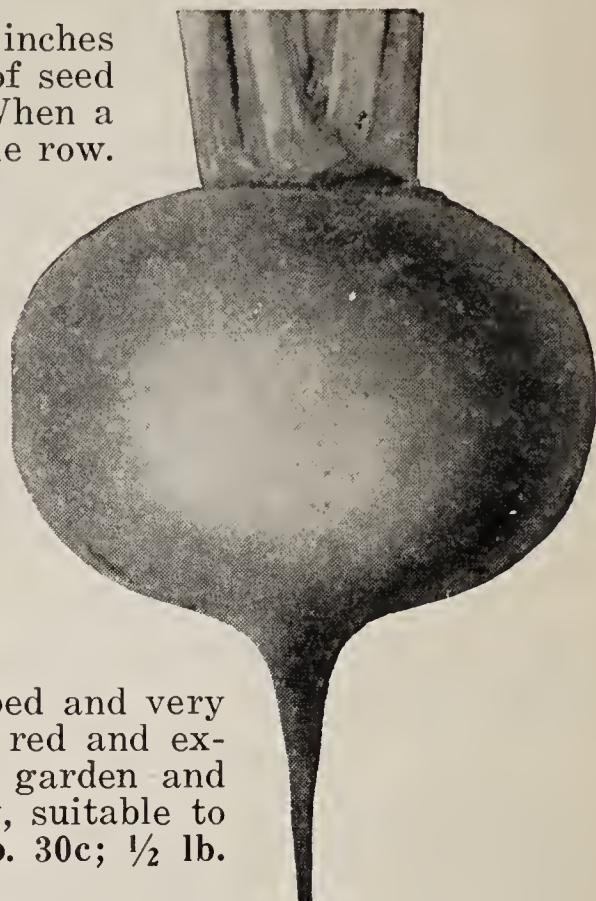
A standard medium variety of excellent quality; also good for summer and fall use. The flesh is deep red, zoned with lighter shades; sweet, crisp and tender, nearly round. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; $\frac{1}{2}$ lb. 45c; 1 lb. 80c.

EXTRA EARLY EGYPTIAN

The best variety for forcing, and for market gardeners, being very early with small tops. Roots very dark red, rounded on top but flash beneath, with very small tap roots. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; $\frac{1}{2}$ lb. 45c; 1 lb. 80c.

EARLY WONDER BEET

An extra variety of recent introduction. Globe shaped and very uniform in size, skin smooth, and flesh is deep blood red and extremely tender. It is admirably suited to the home garden and also, on account of its earliness and superfine quality, suitable to the market gardener. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; $\frac{1}{2}$ lb. 45c; 1 lb. 80c.



HALF LONG BLOOD

This is rapidly becoming a very popular sort and will probably produce more bushels from a given area than any other sort, as it does not occupy so much space in row as the turnip-shaped varieties. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; $\frac{1}{2}$ lb. 45c; 1 lb. 80c.

Makes rapid growth, top small, quality fine, larger than Egyptian, but not as deep a red in color. This is an especially desirable sort for the home garden and bunching. The roots are smooth and round with a small tap root and collar. The flesh is very sweet, crisp and tender, especially when young. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; 1 lb. 80c.

DETROIT DARK RED TURNIP

A fine beet for bunching for market; tops exceptionally small and uniformly upright. The roots are perfect turnip shape with small tap roots. One of the deepest red beets. Quality is of the finest, sweet and tender; finest for home gardens. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; $\frac{1}{2}$ lb. 45c; 1 lb. 80c.

SWISS CHARD, or Spinach Beet

This variety does not produce an edible root like the regular garden Beet, but is highly esteemed for the broad, white leaf stalks and midribs which are cooked and served in the same manner as asparagus, making a most delicious vegetable. The leaves are also cooked like spinach and considered equally palatable. Two distinct dishes may thus be grown from one plant at the same time. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c.

DANISH SLUDSTRUP

Long, reddish-yellow, grows well above the ground, and is easy to pull. Has repeatedly been awarded a first-class certificate by the Danish government. Postpaid, oz. 10c; $\frac{1}{4}$ lb 20c; 1 lb. 50c; 10 lbs. \$4.50.

GIANT FEEDING OR HALF SUGAR

A new variety, more valuable for feeding purposes than the old sorts; yields as much per acre as the best Mangels, and twice as much per acre as the rich Sugar beets. Roots large, smooth with few rootlets; creamy white in color, medium sized tops. Postpaid, oz. 10c; $\frac{1}{4}$ lb. 20c; 1 lb. 50c; 10 lbs. \$4.50.



MAMMOTH LONG RED

An improvement on the Long Red, with ordinary cultivation. If you want a large crop of large Mangels of good quality, don't fail to try this sort. Very uniform, smooth and of good shape. Should be grown in deep, loose soil. Postpaid, oz. 10c; $\frac{1}{4}$ lb. 20c; 1 lb. 50c; 10 lbs. \$4.50.

SUGAR BEETS (For Sugar Making)

Undoubtedly the most highly developed variety for sugar making. Roots of medium size, white skins with tinge of gray, half long and very uniform in size and shape. Flesh white and very rich in sugar. Postpaid, oz. 10c; $\frac{1}{4}$ lb. 25c; $\frac{1}{2}$ lb. 40c; 1 lb. 75c; 10 lbs. \$7.00.

BRUSSELL SPROUTS (Dwarf Improved)

The heads or sprouts are formed on the stalk of the plant, are one to two inches in diameter and resemble miniature cabbage. Postpaid, pkt. 10c; oz. 20c.

CAULIFLOWER

CULTURE—For early use, seed should be sown three-fourths of an inch deep in a greenhouse, hotbed, or in boxes in the house, about six weeks before the plants are needed for planting out. As soon as the soil can be worked in the Spring the plants should be removed to the open field and set in rows 2 feet apart each way. For late use, sow seeds in beds about May 10th, and when the plants are large enough to remove to the garden, setting them from 2 to 2 $\frac{1}{2}$ feet each way.

EUREKA EARLY SNOWBALL

An especially selected strain of Early Snowball Cauliflower, with very uniform solid, ball shaped, pure white heads and sufficient foliage to protect the heads from sunburn. Pkt. 25c; oz. \$2.00; $\frac{1}{4}$ lb. \$6.00.

SUPER SNOWBALL

Matures about ten days later than our Eureka Early Snowball Cauliflower. Makes large, ball shaped heads of very good quality. Pkt. 25c; oz. \$2.00; $\frac{1}{4}$ lb. \$6.00.

DANISH GIANT**Dry Weather Cauliflower**

Early, large, solid white Cauliflower that can successfully withstand a drouth that would prove fatal to other varieties, but, like all Cauliflower, must have rich soil and cultivation to give best results. Also does well under moist conditions. Pkt. 25c; oz. \$2.00; $\frac{1}{4}$ lb. \$6.00.

**CABBAGE**

CULTURE FOR EARLY CABBAGE—Seed of the early varieties should be sown three-fourths of an inch in a greenhouse, hotbed, or in boxes in the house, about 6 weeks before the plants are needed for planting out.

As soon as the soil can be worked in the Spring the plants should be removed to the open field and set out in rows 2 feet apart each way. One-half pound of seed will produce plants for one acre.

CULTURE FOR LATE CABBAGE—The seed may be sown in rows 1 foot apart or broadcast in the garden about the middle of May, and the plants set in the field the latter part of June, or it may

be planted in hills 30 inches apart, 4 or 5 seeds to the hill, in the field where the cabbages are to grow, thinning to one plant in a hill when the plants are 3 to 4 inches high. Where the seed is grown in the field, whether it be in rows or in hills, it should be covered with three-fourths of an inch of soil and this soil limed well to insure rapid germination. One-half pound of seed sown in a bed will produce plants for one acre.



SUREHEAD

Heads are large, round, flattened, uniform, very hard, firm and sweet, and average from 10 to 15 pounds each. Certain to head, a good shipper and a fine keeper. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c.

EARLY JERSEY WAKEFIELD

The favorite early cabbage with our market gardeners. A sure header. The thick, stout leaves and compact habit make it the best for wintering over and very early setting. Postpaid, pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 65c; 1 lb. \$2.00.

IMPROVED AMERICAN DRUMHEAD

Savoy. The best variety of Savoy or crumpled leaf Cabbage. The plant is vigorous, with short stem, has densely crumpled leaves and when touched by frost is sweet, delicate and delicious. The head is large and very solid. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c.

LATE FLAT DUTCH PREMIUM

A low growing variety; heads large, bluish-green, round, solid, broad and flat on top; an excellent fall and winter variety and a good keeper. It is a sure header, and we consider it superior to any other strain of Flat Dutch Cabbage on the market. Postpaid, pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 65c; 1 lb. \$2.00.

COPENHAGEN MARKET**A Splendid Cabbage for Home Gardens**

A new, extra early, globe-shaped Cabbage, slightly flattened. The large, solid heads are very uniform, with few outer leaves; keeps well and stands handling and we recommend it to our customers as the best early round head. Postpaid, pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 65c; 1 lb. \$2.25.

EARLY DWARF FLAT DUTCH

Grows low on the stem; a sure header; firm, fine grained, tender and excellent. Postpaid, pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 65c.

RED CABBAGE**Odense Market**

Used for pickling. The heads are very fine and remarkably sure heading. Pkt. 5c.

GOLDEN ACRE

This is a new round-headed Cabbage which closely resembles the Copenhagen Market in type, but is 8 to 10 days earlier and on account of being smaller can be planted closer. Head is medium size, quite round and has few outer leaves. Very firm and fully equal to any of the late sorts. Postpaid, pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.25; 1 lb. \$4.00.

DANISH ROUNDHEAD**Very Vigorous, Splendid Quality**

An earlier, shorter stemmed, improved strain of the Danish Ballhead Cabbage. The heads are hard, very solid and mature about two weeks before the Ballhead, averaging a little larger and heavier. The inner leaves are blanched almost pure white, are of sweet flavor, crisp and tender. It is less liable to blight and shows vigorous growth even in the hot Summer. Postpaid, pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 80c; 1 lb. \$2.75.

CELERY OR CHINESE CABBAGE**Pe Tsai**

Improved Chinese Cabbage. It is early grown and does well in nearly all parts of the country. It should be grown like a late Cabbage, planting in July, as early plantings run quickly to seed. The seed is sown in drills 16 to 20 inches apart and the seedling trimmed two or three times. The full-grown plant somewhat resembles a Cos Lettuce in appearance. It has a mild flavor and may be eaten raw or cooked. Boiled and seasoned with butter, it is especially delectable. Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.25.

KALE OR BORECOLE

CULTURE — More hardy than Cabbage and makes excellent greens. Improved by a touch of frost. Sow in May and June, cultivate same as Cabbage.

DWARF CURLED KALE

This is more hardy than Cabbage and makes excellent greens for Winter and Spring use. The leaves are curly, bright green, very tender and delicate in flavor. Sow seed in May or June, transplant in July and cultivate same as Cabbage. For early Spring use sow in September; protect over Winter with a covering of straw or litter. Pkt. 5c; oz. 15c.

LEEK

The Leek belongs to the Onion family. Prized for soups. Cultivate same as Onions; should be hilled up about the neck to branch it. Postpaid, pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 75c; 1 lb. \$2.50.

MUSHROOM SPAWN

With intelligent care and good spawn, Mushrooms can be made to pay handsomely. They can be successfully grown in a dry cellar, under the benches of a greenhouse, or in the sheds, where the temperature can be kept from 50 to 60 degrees through the winter. Postpaid, brick, 45c.

CARROTS

CULTURE—A sandy loam is the best for the Carrot, but any good land, if thoroughly and deeply worked, will produce satisfactory crops. Sow as early in the Spring as the ground is fit to work, though good crops may be grown from sowing as late as June 15. For table use, sow the smaller kinds in rows 16 to 18 inches apart, and for field culture prepare the ground thoroughly and sow in drills 18 to 24 inches apart. Cover one-half to one inch deep and see to it that the soil is well firmed above the seed.

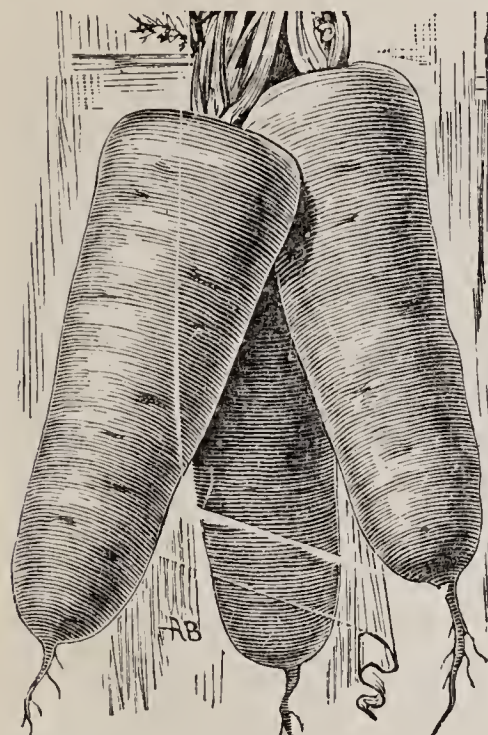
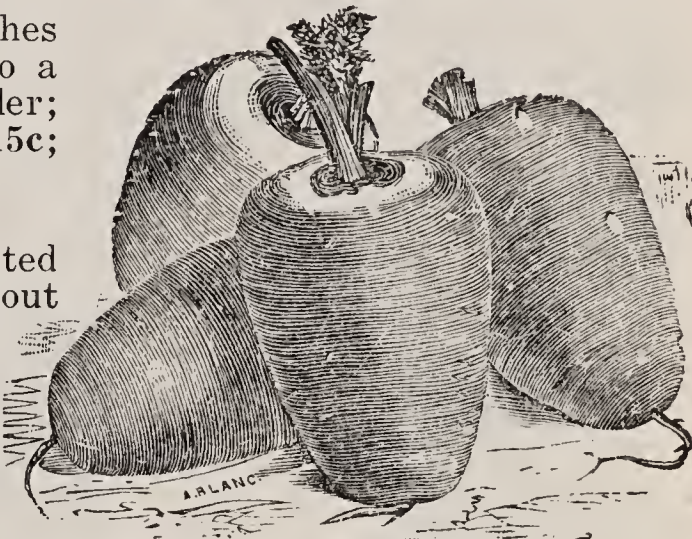
CHANTENAY OR MODEL

An excellent stump-rooted variety about six inches long, very broad at the shoulder and tapering to a blunt point, free from core, fine grained and tender; orange-red; medium early. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. 90c.

EARLIEST SHORT HORN OR FRENCH

The earliest variety in cultivation, and best suited for forcing. Roots reddish brown, globular and about

two inches in diameter; should be used before full grown. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; 1 lb. \$1.25.



HALF LONG SCARLET NANTES

Tops of medium size; roots cylindrical, smooth, bright orange; flesh orange, becoming yellow in center, but with no distinct core. Of the finest quality and one of the most symmetrical and handsome of the medium sized sorts; excellent for market or home garden. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. \$1.00.

IMPROVED DANVERS HALF LONG

Our strain of this popular Carrot has a root which comes to a blunt point, a very beautiful Carrot. A first-class Carrot for all soils. The root is of a rich, dark orange color; it is very smooth and heavy yielding, 20 to 30 tons per acre not being an unusual crop. Prices for large or small lots. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. 90c.

OXHEART

A thick Carrot, five or six inches long and very blunt at the lowest extremity. It grows very rapidly and the root attains a weight of more than a pound. It is tender and of good flavor. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. 90c.

VICTORIA CARROT—For Stock

The Victoria is a very large and a very rich stock Carrot. We can say that there is no yellow Carrot that can approach the Victoria in size, yield and in feeding qualities. It grows nearly as much weight again per acre as the ordinary varieties, and, as the roots grow more above the ground, it is much easier to gather the crop. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; 1 lb. 80c.

MASTODON CARROT

The heaviest cropping Carrot grown, yielding more tons to the acre than any other sort. The flesh is white, crisp and solid and very sweet in flavor. It is a vast improvement on the white and green Belgian sorts which have been favorites in the past, as it is not only much more productive, but vastly easier to handle. The roots are short and very heavy at the shoulder, rendering them easily harvested. Too much can scarcely be said for their size and great productiveness. The roots frequently measure 15 to 20 inches in circumference, and 18 to 40 tons to the acre is not an extravagant statement as to yield. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; 1 lb. 80c. Write for quantity prices.

CHICKORY

Large rooted. Used as a substitute for coffee; and the young blanched shoots for salad. Pkt. 5c; oz. 15c.

CELERY

CULTURE—Sow the seeds early, about February, in a hot-bed or cold frame. When three inches high transplant, setting them about four inches apart. When grown six inches and fine stock plants, set in richly manured deep soil, in rows three and a half feet apart and about nine inches from plant to plant. Blanch by placing board along



TRUE WATER CRESS

One of the most delicious of small salads, and should be planted where a suitable space can be found. The seed should be sown and lightly covered in gravelly, mucky lands, along the borders of small, rapid streams. Postpaid, pkt. 10c; oz. 40c.

CHIVES

Usually grown as an edging and has a mild flavor of young onions. The leaves are used in soups and salads for seasoning. Pkt. 10c; oz. 65c.

MUSTARD

Mustard is used alone as "greens", or with cress as salad. Sow any time in the Spring, in rows, and thin out as necessary.

SOUTHERN CURLED

Hardy and vigorous, with large, light-green leaves, crimped and frilled at the edges. Excellent while young for salads and garnishing. Postpaid, pkt. 5c; oz. 10c; 1/4 lb. 30c.

SMOOTH LEAVED

Bears large, light green, smooth leaves, well above the ground. Plants grow quickly, upright when young and spread out with age. More easily prepared for table than the rough sorts. Pkt. 5c; oz. 10c; 1/4 lb. 30c.

ENDIVE

This is a hardy vegetable, cultivated principally for Winter salad. Sow from May until August for a succession of crops; tie the leaves closely together to blanch them.

GREEN CURLED—Standard sort for Fall and Winter. Pkt. 5c; oz. 15c.

the rows, or earth up a little, continue doing so at intervals until only the tops of the leaves are visible late in August. Never hoe up the earth when the plants are wet. One ounce of seed produces about 6000 plants.

GIANT PASCAL

Excellent for Fall and Winter use. A large, tall grower of the finest nut flavor. Very broad stalks, blanching very quickly with little banking up; an admirable keeper. Pkt. 10c; oz. 30c; 4 ozs. \$1.00.

WHITE PLUME

The Leading Celery

A handsome, crispy sort, of very easy cultivation. It is the earliest Celery known. Postpaid, pkt. 10c; oz. 30c; 1/4 lb. 90c; 1 lb. \$3.00.

GOLDEN SELF-BLANCHING—Imported The Finest Strain of French Grown Seed

A good standard early variety, blanching easily. The heart is rich golden yellow; the outer leaves yellow. Postpaid, pkt. 15c; oz. 85c; 1/4 lb. \$2.75; 1 lb. \$8.00.

UTAH OR GOLDEN CRISP

A much stouter, thicker and heavier celery, with double the amount of heart of any known celery. The plant is beautiful in appearance, of close habit and compact growth and branches to a creamy white. Ribs perfectly solid, crisp and of a delicious nutty flavor. Pkt. 10c; oz. 70c; 1/4 lb. \$2.50; 1 lb. \$8.00.

CRESS

CURLED OR PEPPER GRASS

This salad is much used with lettuce, to which its warm, pungent taste makes an agreeable addition. The seed should be sown in drills about 16 inches apart on very rich ground, and the plants well cultivated. It may be planted very early. Postpaid, pkt. 5c; oz. 15c.

WHITE ENGLISH

Leaves are dark green, small, smooth and deeply cut; mild and tender when young. The seeds are large and light yellow. Postpaid, pkt. 5c; oz. 10c; 1/4 lb. 30c.

SWEET SUGAR CORN

HOW TO GROW CORN—Sweet Corn should be planted as soon as the soil is thoroughly warmed in Spring, and successive plantings should be made at intervals of two weeks; or early, medium and late varieties planted, for succession. It is very sensitive to frost, and early plantings may be killed, but it is neither much trouble nor expense to replant. If the early plantings are not killed, the result will be worth taking a chance for.

OREGON EVERGREEN

Similar to Stowells' Evergreen but earlier. Bears three to five large ears, having 16 to 18 rows of sweet kernels, generally compact and straight. Husk is thick and remains in prime condition several days after being pulled. $\frac{1}{2}$ lb. 15c; 1 lb. 20c; 10 lbs. \$1.75.

GOLDEN SUNSHINE

An early yellow variety with good sized ear, particularly desirable for market garden use. Four to five days earlier than Golden Bantam. Ears 10 to 12 rowed. Kernels medium broad, golden yellow, sweet, tender, and of good flavor. $\frac{1}{2}$ lb. 15c; 1 lb. 20c; 10 lbs. \$1.75.

WHITE EARLY MARKET

This variety is the earliest of the White Corn, and combines the quality and earliness of the Golden Early Market in a white Corn. The ear is slightly larger, but is also a 12-row corn. The ear is borne about 15 inches from the ground on a dwarf stalk. Finds popular use as an early Corn for home planting. Withstands cold weather better than most Sweet Corn varieties. Pkt. 10c; $\frac{1}{2}$ lb. 15c; 1 lb. 20c; postpaid.

GOLDEN BANTAM

One of the most popular of all varieties. The ear is a golden yellow, tender, sweet and delicious. Stalks about 5 feet high. Postpaid, pkt. 10c; $\frac{1}{2}$ lb. 15c; 1 lb. 20c; 10 lbs. \$1.75.

GOLDEN EVERGREEN

This corn is the tenderest, sweetest and best evergreen corn in existence. On account of its firm texture it can be planted earlier than any other variety of sweet corn, and is less apt to be bothered by worms. Postpaid, pkt. 10c; $\frac{1}{2}$ lb. 15c; 1 lb. 20c; 10 lbs. \$1.75.

EARLY EVERGREEN

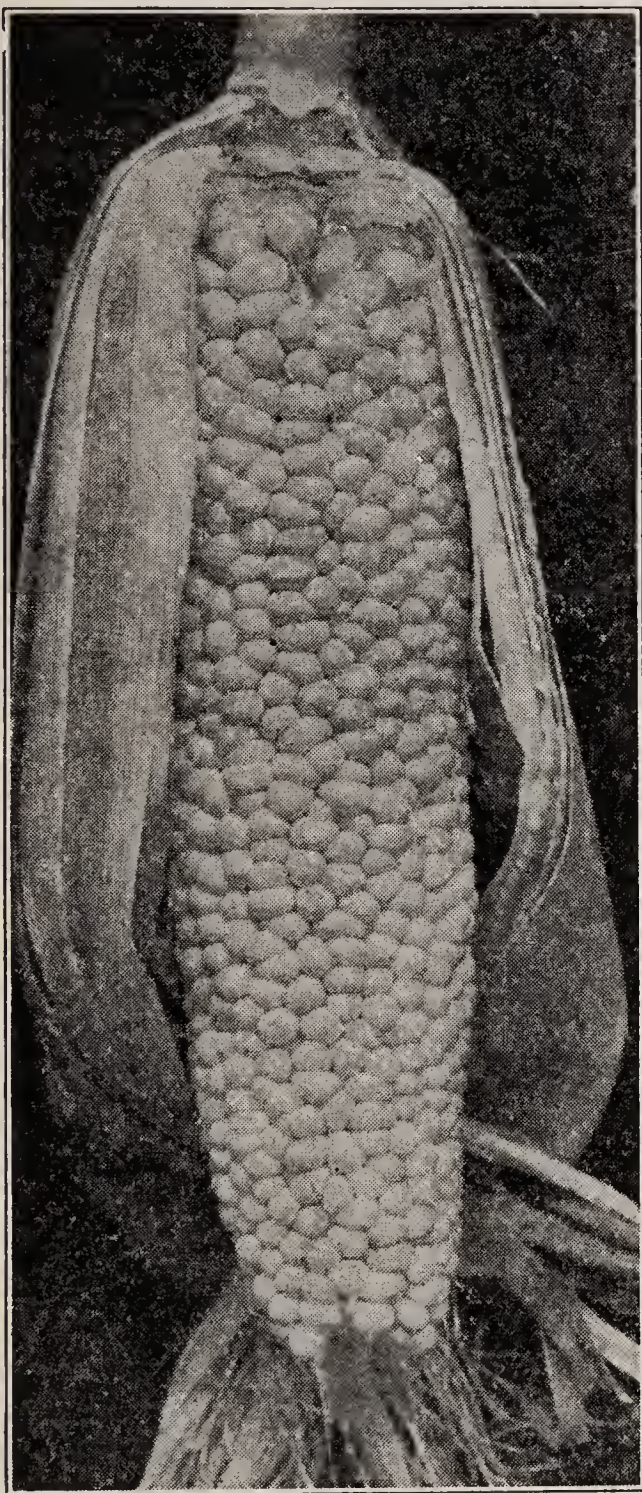
This corn has all the good qualities of its parent, "Stowell's Evergreen", but matures earlier. The stalks grow from six to eight feet high. Pkt. 10c; 1 lb. 20c, postpaid; 10 lbs. \$1.50.

STOWELL'S EVERGREEN

Remarkable for remaining a long time in a fresh condition suitable for the table. Hardy and productive and the best late variety for general use. Pkt. 10c; 1 lb. 20c, postpaid.

COUNTRY GENTLEMAN

These ears are not only good size, but are produced in great abundance, frequently bearing four good ears, while the average is three to a stalk. The cob is very small, giving great depth to the kernels, which are of pearly white quality. It is without doubt the sweetest and most tender of all sweet corns. Pkt. 10c; $\frac{1}{2}$ lb. 15c; 1 lb. 20c, postpaid.



CUCUMBERS

CULTURE—Plant the seed $\frac{3}{4}$ of an inch deep in hills four to six feet apart each way according to the variety, about corn planting time, allowing 10 seeds to the hill. As soon as the plants commence to run, remove all but three or four of the most promising ones in each hill. The seed may also be started in old berry boxes by placing them in the hotbed. When the weather is suitable—settled and warm—remove the box as the plants are placed in the garden. One ounce required to 60 hills; two or three pounds to acre.

WEST INDIA GHERKIN

Oval shaped; for pickling only. Postpaid, pkt. 10c; oz. 20c.

BOSTON PICKLING

Very productive, grown largely for pickles. Fruit is medium sized, very smooth, bright green. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. \$1.00.

EARLY GREEN CLUSTER

Fruit small, grows in clusters of two or three; very prolific, short, dark green. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. \$1.00.

IMPROVED ARLINGTON WHITE SPINE

The fruit is uniform in size and shape, averaging seven to eight inches long. Color dark green, quality excellent, and contains but few seeds. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. \$1.00.

LONGFELLOW

The vines are exceptionally healthy and productive and fairly early. The fruits will average 12 to 14 inches in length by $2\frac{1}{2}$ inches in diameter and are very symmetrical. Color dark green. Desirable for home garden, and for shipping, also used for greenhouse forcing. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; 1 lb. \$1.50.

JAPANESE CLIMBING

A vigorous grower, can be trained on a trellis. Fruit from 12 to 16 inches long, dark green and smooth. Flesh pure white, crisp and tender. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c.

LONG GREEN

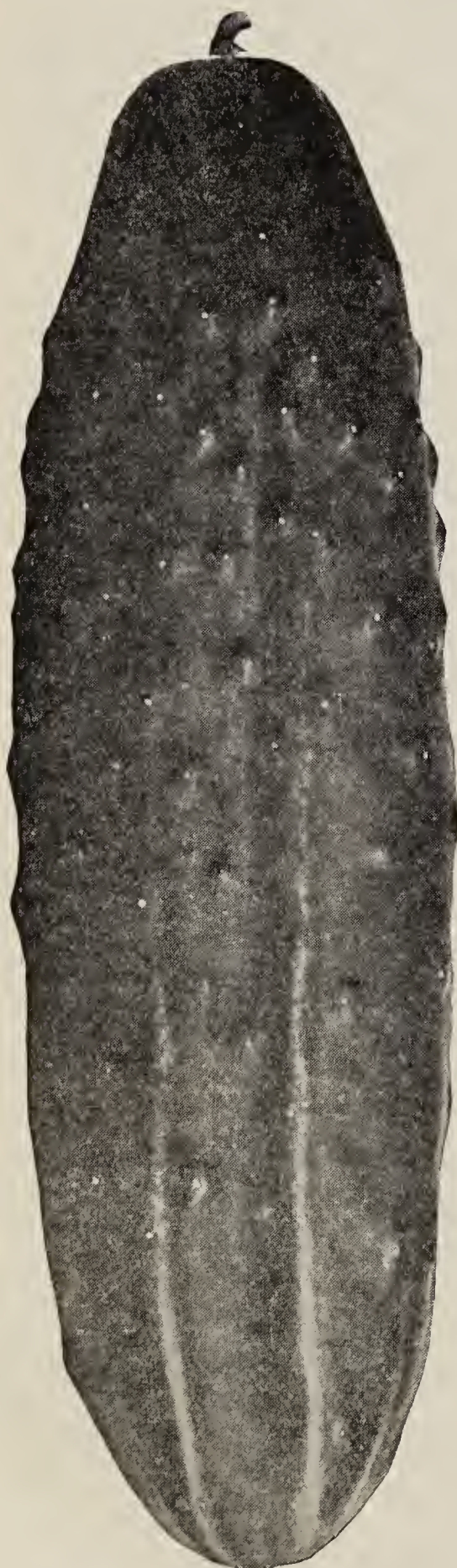
Produces dark green fruit from 10 to 14 inches long. Fresh solid, crisp and of fine quality. Fine for slicing and pickling. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. \$1.25.

EGG PLANT

Should be started in a hotbed and transplanted when the weather is settled and the ground thoroughly warm. They will thrive with the same treatment as that given the tomato.

NEW YORK IMPROVED SPINELESS

The leading market variety. Large, round, dark, excellent and the most productive. Pkt. 10c; oz. 50c.



CULTURE—Sow in the house or in frames any time after March 10th; if put outdoors, as early in the Spring as the ground can be worked and at intervals of two weeks after June 1st. Soil should be a rich, sandy loam with plenty of humus. Rows to be 1½ feet apart, plants 2 inches apart in row after thinning. Two ounces of seed will sow 150 feet of row, 4 to 5 lbs. required per acre.

CALIFORNIA CREAM BUTTER

Forms round, crisp, solid heads, of buttery flavor, medium early. One of the best summer varieties. of Head Lettuce. Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25.

BROWN DUTCH OR PRIZEHEAD

Form a large, solid head, sweet, tender and of good flavor. Outer leaves are tinged with brown. It is very heavy. Postpaid, pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25.

NEW YORK NO. 12

This type has been developed from the standard New York flat-headed type, but is an improvement over the original, being earlier, surer header, and producing larger and more solid heads, and is slower going to seed, and not so liable to sun-scauld. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.25.

**GRAND RAPIDS
For Early Forcing**

A very popular loose-leaved variety for greenhouse forcing. It grows quickly, is hardy, not liable to rot, remains in condition for cutting for several days, and stands shipping better than most sorts. Postpaid, pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.

HANSON

Improved Hard Heading Stock

One of the very best. Heads green outside and white inside; grows to a remarkable size, very solid, and deliciously sweet, crisp and tender. It withstands the hot sun well. Postpaid, pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.

NEW YORK OR WONDERFUL

Best Head Lettuce for Market Growers

This is the mammoth Head Lettuce so



LETTUCE



popular in California, from whence it is shipped to the northern markets, arriving in splendid condition. The immense heads are solid, heavy, beautifully blanched to a creamy white with light green outer leaves. The quality is unsurpassed, being tender, crisp and sweet. "New York" is a hardy, rapid grower, deep rooted and resistant to drouth; a slow seeder and sure to head. Postpaid, pkt. 5c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.25.

EARLY CURLED SIMPSON

A standard variety for forcing or for very early outdoor culture. The leaves, in loose clusters, are light green in color, slightly frilled and much blistered, are crisp, tender. Especially adapted for sowing thickly and cutting while the plants are young. Postpaid, pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.

ROMAINE, COS OR CELERY LETTUCE

A very distinct variety of Lettuce, having large, elongated, compact heads that blanch mild and crisp. The plants are of erect growth, forming a tall, slightly oblong bunch of large crisp leaves. Pkt. 15c; oz. 20c; ¼ lb. 60c.

OKRA OR GUMBO

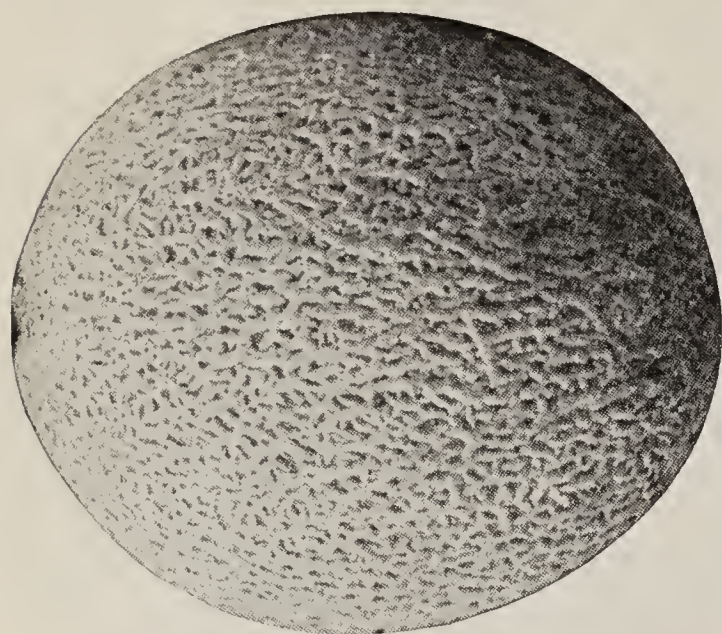
CULTURE—Sow the seed thickly in rich ground as soon as the ground has become warm, in drills three feet apart and one inch deep. Thin out to 10 inches apart and cultivate freely.

DWARF GREEN

Grown for its green pods, which are used in soups, stews, etc., to which they impart a rich flavor and are considered very nutritious. Produces an abundance of long, slender, pale green pods, which are very tender when young. Postpaid, pkt. 5c; oz. 15c; ¼ lb. 35c.

WHITE VELVET

The plants are about three and one-half feet high, early maturing and very productive. The pods are white, long, smooth and are tender until nearly full sized. Postpaid, pkt. 5c; oz. 15c; ¼ lb. 35c.



MUSKMELON

CULTURE—Muskmelons delight in moderately rich, warm, mellow loam. The seed should be planted in the Spring upon the arrival of settled warm weather. Plant seeds one inch deep in hills four to six feet apart each way, and as soon as the plants begin to run remove all but four of the most likely ones.

BURRELL'S GEM

A very popular variety in this locality. The skin is rather dark green; the rind is thin, and the flesh is very dark, salmon colored of a most delicious flavor, juicy and fairly melts in the mouth. **Postpaid, pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

ROCKY FORD

Oval, slightly ribbed, densely covered with coarse netting. Fleshy thick, green, very sweet, highly flavored, wonderfully uniform in shape and quality. A favorite with market gardeners. **Postpaid, pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25.**

GOLD-LINED ROCKY FORDS

Of a fine, uniform shape and without ribs; slightly oval, meat thick, light green with a light golden-yellow rind. Flesh very sweet and spicy. There is no better melon than this. **Postpaid, pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

EXTRA FANCY HACKENSACK

Fruit attains a good size, weighing four to six pounds each. The melons are round, heavily ribbed; skin is green and thickly netted; flesh is light green, of delicious flavor, rich and sugary. It is also a luxuriant, healthy grower, and exceedingly productive. The earliest of all large netted melons. **Postpaid, pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

HOODOO OR HEARTS OF GOLD

A new and excellent variety; an ideal shipper of medium size; rind thin; flesh very thick, firm and highly colored; of fine texture and delicious flavor. **Postpaid, pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

BANANA

Grows one and a half to two feet in length and three to four inches in diameter; flesh salmon, and exquisitely flavored, resembling banana. **Pkt. 5c; oz. 15c; ¼ lb. 50c.**

HALE'S BEST

An extra early salmon tint of remarkable flavor. Seed cavity is small and the attractive salmon tinted flesh is firm. Melons are oblong, well netted and very attractive. It is 10 days to two weeks earlier than any other strain of the famous Rocky Ford or Netted Gem variety. **Postpaid, pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

NEW HONEY DEW

The skin is smooth with an occasional net and when fruits are ripe is creamy yellow in color. Flesh light emerald green; fine grained and of very sweet, sugary flavor. Rind thin, but very firm, and the fruit stands shipping remarkably well. If picked shortly before fully matured, the fruits will keep for several weeks. **Pkt. 5c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.50.**

GOLDEN BEAUTY

One of the best cassabas. The fruits are nearly globular, bright yellow with golden tint, with wrinkled skin, six to eight inches in diameter. The flesh is white, very thick, juicy and sweet. **Pkt. 5c; oz. 20c; ¼ lb. 50c.**

OSAGE OR MILLER'S CREAM

Fruit medium size, oval, slightly ribbed, dark green in color, covered more or less with shallow netting. The flesh is deep salmon color and very thick, there being but slight cavity in the center of even the largest fruit; the quality is exceptionally fine. A favorite for the later markets. **P.P., pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

PARSLEY

CULTURE—Sow seed in shallow drills in the very early Spring for a border or in rows 12 to 18 inches apart, and thin the plants to four inches. Cultivation should be frequent and weeds kept removed. One ounce of seed will sow 150 feet of row; six pounds of seed required for an acre.

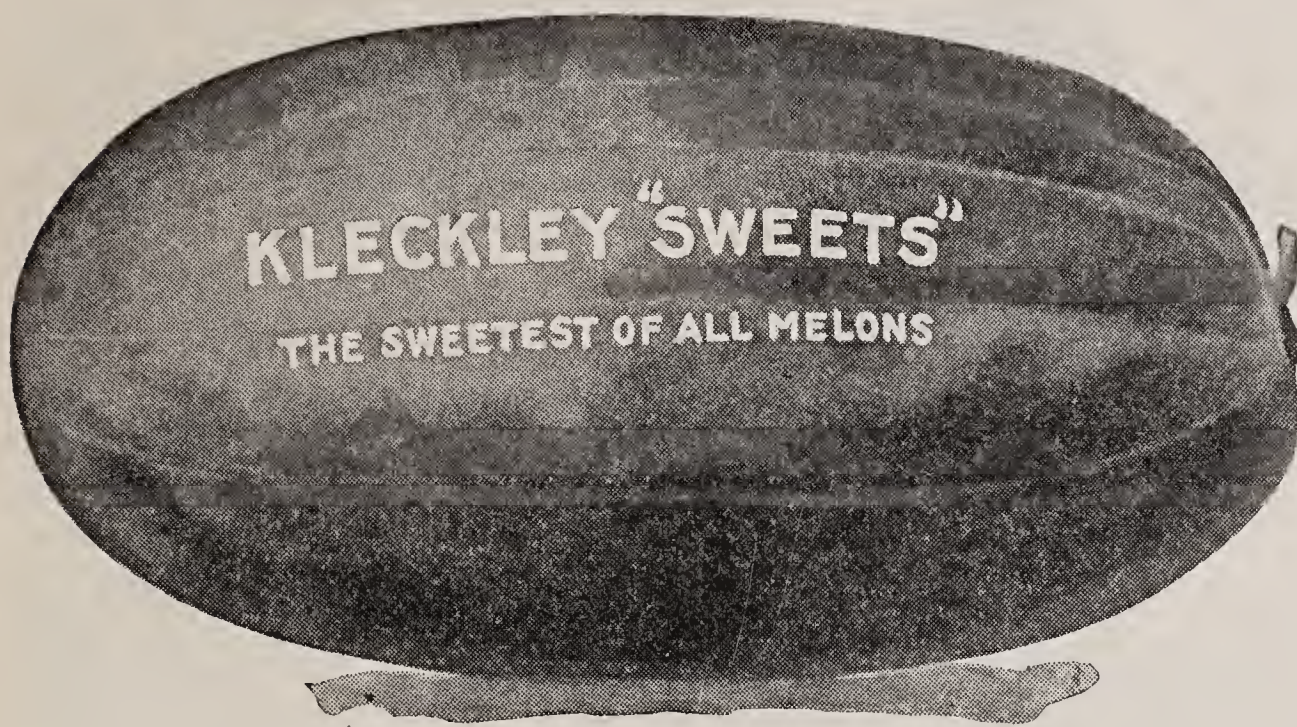
DARK MOSS CURLED

The leaves are of an extra dark green color. It is very productive, and on account of the densely curled character of its leaves a quantity can be gathered in a short time. **Postpaid, pkt. 5c; oz. 15c; ¼ lb. 35c.**

DOUBLE CURLED

Fine, dwarf, crimson leaves. **Postpaid, pkt. 5c; oz. 15c; ¼ lb. 35c.**

WATERMELONS



KLECKLEY'S SWEETS

The finest of all medium early watermelons for home use. The rind is too thin to stand long-distance shipment. The fruits are uniform in size, oblong in form, the skin is rich dark green, the flesh bright scarlet, the seeds lie close to the rind, leaving a very bright, solid, red core. The flesh is rich, sugary and melting, entirely free from stringiness. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; 1 lb. 90c.

ANGELINO, BLACK SEEDED

Very uniform, vigorous growers. Flesh very deep red, stringless and very sweet. The rind green, thin but tough. A real good shipper. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. \$1.25.

ICE CREAM OR PEERLESS

Rind thin, light mottled green; flesh bright scarlet, solid to the center, sweet as honey. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. \$1.00.

FORDHOOK EARLY

An extra early Watermelon of large size. The rind is tough, making it desirable for shipping purposes. Flesh is bright red and very sweet. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. \$1.25.

SWEETHEART

Remains in condition for use longer than

any other sort. Fruit early, large, oval and very solid. Flesh bright red, tender and sweet. Rind thin, but strong. Postpaid pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; 1 lb. 90c.

GYPSY OR GEORGIA RATTLESNAKE

A variety very popular with home gardeners and shippers. Long fruit, light green striped dark green. Flesh scarlet with white seeds; tender and sweet. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. 90c.

NEW KLONDIKE

Klondike is offered with the assurance of being not only remarkably early, but as sweet, delicate and melting in flavor as any variety grown. The flesh is of a deep scarlet. Rind thin, not a particularly good shipping sort, but is emphatically the variety for home use and sale. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. \$1.25.

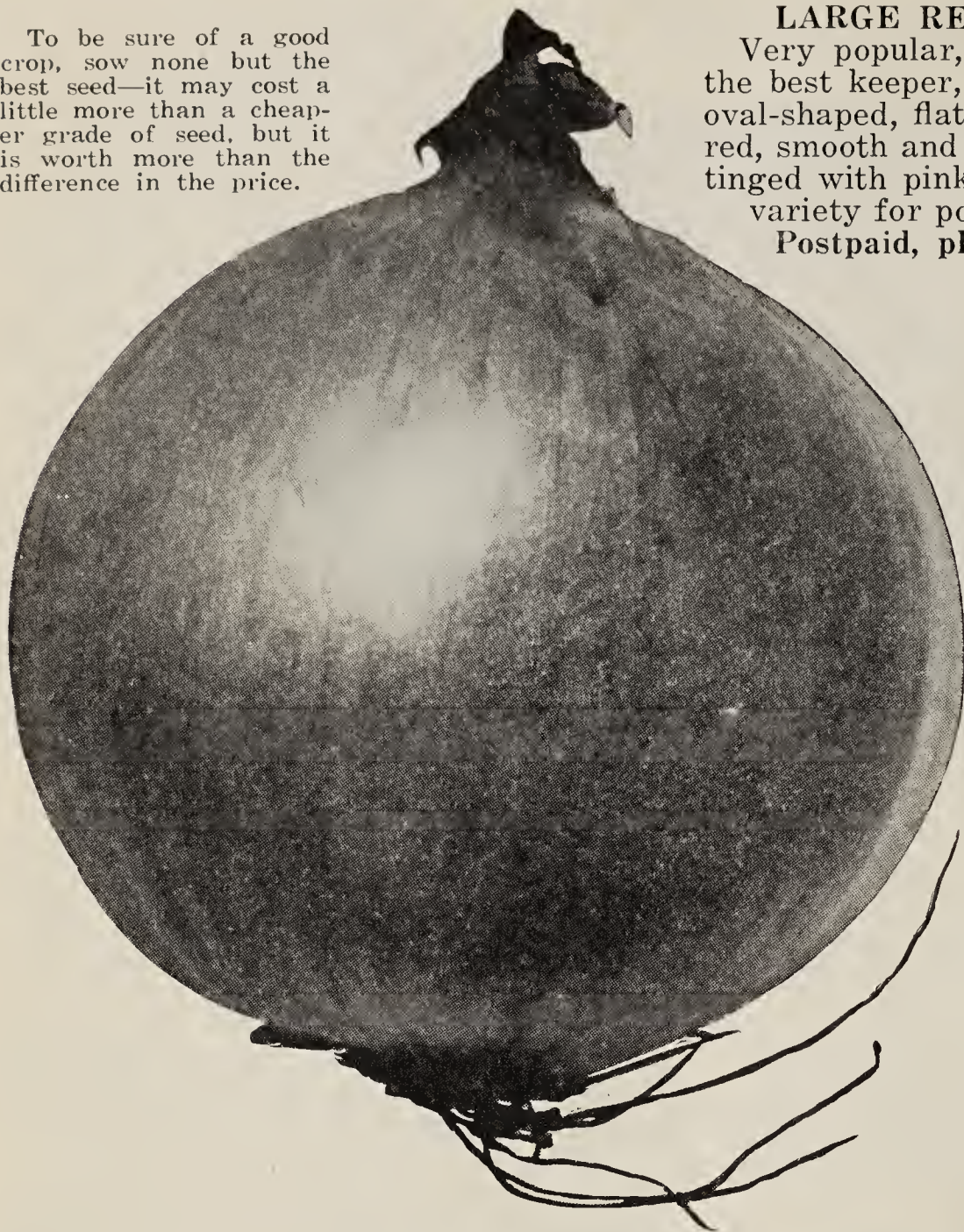
ONIONS—Hints on Onion Culture

Onions require a well drained loam. The land should be very rich and it is necessary that it should have raised a hoed crop the previous season. It is a mistake to attempt to grow onions on weedy or run-down land. To get the best results, a heavy top dressing of well-rotted barnyard manure should be well worked into the soil. After this a complete commercial fertilizer containing a large proportion of potash should be used. This should be sown broadcast at the rate of 1,000 pounds per acre. If the land has been in a high state of cultivation, the commercial fertilizer may replace the barnyard manure. It costs no more to cultivate a crop that yields 800 bushels per acre than it does to cultivate a crop that yields only 300 bushels. When land is in good condition onions may be grown on it year after year. Seed should be sown as early in the Spring as the land can be worked. If intended for hand cultivation, sow in rows 12 to 14 inches apart, and if for horse cultivation, about 30 inches apart. It requires about four pounds of seed per acre. In the case the tops do not die off naturally, they may be broken down and so cause the bulbs to ripen, but onion will not make good keeping bulbs, and should be disposed of as soon as possible.

CULTURE—
Watermelons thrive best on light well-drained soil, but give good results on any good rich garden soil that is properly drained and cultivated.

Plant after the weather is settled and ground is warm. Hills should be eight feet apart each way and with well-rotted manure thoroughly worked into each hill. One ounce of seed will plant 80 hills, two or three pounds to the acre. Thin to two or three plants per hill.

To be sure of a good crop, sow none but the best seed—it may cost a little more than a cheaper grade of seed, but it is worth more than the difference in the price.



LARGE RED WEATHERSFIELD

Very popular, a sure and heavy yielder; the best keeper, grows to an immense size, oval-shaped, flattened on top; skin purplish red, smooth and glossy; flesh white, slightly tinged with pink, strong flavored. The best variety for poor or dry soil.

Postpaid, pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.25.

SOUTHPORT RED GLOBE

In all markets, Globe Onions are in greatest demand, being of such shape there is practically no waste. The onion which is perhaps the best known throughout the United States is the Southport strain. The Red Southport is perfectly globe-shaped and very handsome in color. The onions measure from two and a half to three and a half inches in diameter, and are very uniform both in size and shape. They are also good keepers. The Globe varieties, as a rule, yield the largest crops, from 700 to 800 bushels an acre. The Red Globe meets with the greatest demand in the Northwest. Postpaid, pkt. 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.

CRYSTAL WHITE WAX BERMUDA

This new variety is a large, pure white, flat onion. During the last few years it has become very popular with the large onion growers in the South, especially in southwest Texas. It does very well under northern conditions and produces one of the mildest and sweetest of them all. It is very fine for slicing, the color being so clear and pure. The best seed is produced in Teneriffe, Canary Islands. Our stock is genuine, but limited. Pkt. 10c; oz. 35c; ¼ lb. \$1.00; 1 lb. \$3.25.

YELLOW BERMUDA

The bulbs are quite broad and flat in form. The color is not a clear white, as in our American varieties, but rather a pale straw; flesh crisp, solid and mild in flavor. The plants are extremely thin-necked, insuring even and early ripening. Pkt. 10c; oz. 35c; 1 lb. \$3.75.

WHITE SWEET SPANISH ONION

This new Spanish type of onion is identical in shape and size and habits of growth to the Spanish onion Valencia type, but requires a slightly longer maturity season, and the skin is pure white. The flavor is unusually sweet and mild. The size of the bulb and the yield is just as large as the yellow Sweet Spanish. Pkt. 10c; oz. 30c; ¼ lb. 90c; 1 lb. \$3.00.

VALENCIA SWEET SPANISH

A distinct type and of a very superior quality and flavor. The flesh is **unusually mild**, pure white and sweet. They make handsome looking onions. A fine shipper and good keepers, quick sellers. The onions will range in size from 3 to 5 inches in diameter if given good soil, cultivation and ample room. An ideal globe-shaped onion with a light yellow skin. Postpaid pkt. 10c; oz. 25c; ¼ lb. 80c; 1 lb. \$2.25.

AUSTRALIAN BROWN

Early and very hard variety which does especially well in Idaho. The skin is thick and the color is a rich brown. Is especially noted as long keeper, as it keeps well into Spring without sprouting or shriveling and much longer than other varieties. Postpaid, pkt. 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.

SOUTHPORT WHITE GLOBE

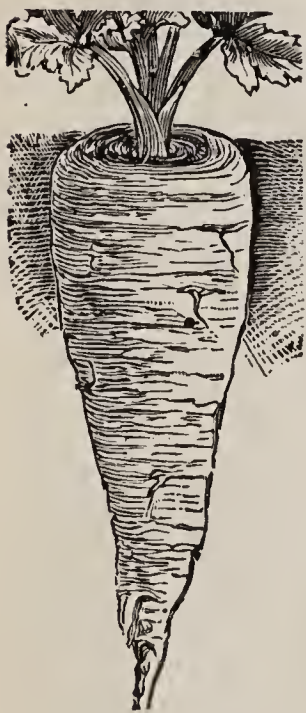
White Globe Onions command the highest market prices when they are true globe-shaped and free from stain. Our Southport White Globe Onion meets these requirements, having a thin skin of purest whiteness. The flesh is crisp, fine grained, very white and mild. As soon as ripe the bulbs should be stored in a cool, dark shed or dry cellar. Pkt. 5c; oz. 30c; $\frac{1}{4}$ lb. 75c; 1 lb. \$2.25.

WHITE BARLETTA

This variety is more distinct on account of its earliness. It is earlier than the White Queen. It is of a beautiful waxy white color and grows $1\frac{1}{4}$ inches in diameter and $\frac{3}{4}$ of an inch thick, with finely formed bulbs, slightly flattened at the top. Its earliness will highly recommend its use as a substitute for onion sets. An excellent bunching and picking sort. Postpaid, pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c; 1 lb. \$2.50.

SOUTHPORT YELLOW GLOBE

Very similar to the Southport Red Globe, except that it averages a trifle smaller and matures a little earlier. The skin is a rich brownish yellow; the flesh white, crisp and fine grained. Great care has been given to the selection of our seed, so as to give uniformity of size, shape, small necks and heavy yield. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 65c; 1 lb. \$2.25.

**BOTTOM ONION SETS**

Small onions grown from seed that has been sown too thickly to attain a large size. The small onions (about $\frac{1}{2}$ inch in diameter) thus obtained are planted out and are ready in a short time to pull as green onions for the table or bunched for the market. If left to stand, they make ripe onions of the best quality, and come to maturity some six weeks earlier than a crop grown directly from the seed.

White Bottom Sets, Yellow Bottom Sets
Postpaid, 1 lb. 20c; 6 lbs. \$1.00.

ONION PLANTS**Raise Early Onions from Onion Plants**

For those who desire an early crop, either for table use or for local marketing, these plants will prove most desirable, and the fact that they are inexpensive and call for the minimum of labor and trouble in producing the crop has created an ever-increasing demand for them. They may be set out at the same time you would plant sets or cabbage plants. Plant in rows about 15 inches apart and 3 to 4 inches apart in row.

Crystal White Wax Bermuda: Postpaid, 100 20c; 500 90c; 1,000 \$1.50. Write for crate prices.

PARSNIPS

CULTURE—As the seeds germinate very slowly, sow as early in Spring as possible, in drills 15 inches apart on deeply cultivated, rich, loamy soil. Keep clear of weeds and thin to three or four inches apart. The roots of the parsnips are improved by freezing.

HOLLOW CROWN OR LONG WHITE

Root very long, white, smooth, tender, sugary, and of most excellent flavor. Very hardy; will keep through the Winter without protection. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; 1 lb. 85c.

SWEET MARROW PARSNIP

This fine new Parsnip of English origin is offered with full confidence that it will become a prime favorite with all who use it. It is very fine grained and exceedingly sweet, while the peculiar "parsnip" flavor is fully preserved. The roots are unusually smooth and attractive in appearance. The best of all Parsnips for the market or private garden. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; 1 lb. 85c.

PEPPERS

CULTURE—Sow the seed early in hotbeds; or later, when the weather becomes warm, in open beds. When two or three inches high transplant to a warm, mellow soil, in rows eighteen inches apart and a foot apart in the rows. Guano and hen manure are excellent fertilizers and will greatly increase the yield.

CHINESE GIANT

Sweet. The mildest and best of the field Red Peppers. Four to five inches in diameter; color, brilliant deep red; borne in clusters; bush stock, well branched; vigorous and about as early as Ruby King. Postpaid, pkt. 10c; oz. 60c; $\frac{1}{4}$ lb. \$1.75.



CALIFORNIA WONDER

Fruits are large and blocky in form. Walls heavy, the flesh often being $\frac{3}{8}$ of an inch thick, deliciously crisp, tender and sweet. Color, a brilliant dark green changing to crimson when ripe. Pkt. 10c; oz. 60c; $\frac{1}{4}$ lb. \$2.00.

LARGE BELL OR BULL NOSE

Large, mild, thick-fleshed variety. One of the best for stuffed pickles. Postpaid, pkt. 10c; oz. 50c; $\frac{1}{4}$ lb. \$1.25.

CAYENNE

Pods long, bright red; very pungent and used very largely with pickles when green. Postpaid, pkt. 10c; oz. 50c.

PIMENTO

Fruit large, smooth and glossy. Deep green when young, becoming deep scarlet. Flesh thick, solid, mild and sweet in flavor. Postpaid, pkt. 10c; oz. 50c.

PUMPKIN

CULTURE—For seed sown with care, plant only one row in five, which, when the vines begin to run, may be omitted in cultivation and thus the plants will not be injured. Use a dibbler and plant three to five rows in every third hill of corn. Plant as a single crop in hills eight feet apart each way. Use Paris Green and plaster or wood ashes to control the striped squash bugs. When well established thin to four plants in each hill.

LARGE CHEESE OR KENTUCKY FIELD

Large, round, flattened, hardy and productive. About two feet in diameter. A fine keeper. Thick flesh of extra fine quality. A fine sort for family and market use. It is also grown quite extensively for stock feeding. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; 1 lb. \$1.00; 5 lbs. \$4.00.

EARLY SUGAR OR PIE PUMPKIN

Small, round, flattened, prolific, deep orange-yellow. Flesh fine grained, sweet and of finest quality. One of the best for pies. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. \$1.00.

MAMMOTH PRIZE

The largest pumpkin grown. Has weighed as high as 225 pounds. A winner. The flesh is fine grained and the quality is excellent. The flesh and skin are of a bright golden yellow color. Notwithstanding its large size it is a fine variety for pies and is a splendid keeper. Postpaid, pkt. 5c; oz. 15c; 1 lb. \$1.25.

CONNECTICUT FIELD

An immensely productive, large, orange-colored field pumpkin, usually grown for stock feeding, but also makes good pies. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; 1 lb. \$1.00; 5 lbs. \$4.00.

PEAS—Early Varieties

(One pound of seed for 50 feet of drill)

Peas from any one planting will remain in the best condition for use only for a comparatively short time. To have a constant supply throughout the season, a succession of plantings should be made.

The dwarf varieties do not bear as heavily nor for so long a period as the climbing sorts, but for small gardens they have the advantage that they are grown almost exclusively by many western gardeners. One or two dwarf sorts sown every ten days or two weeks will maintain a supply.

TOM THUMB

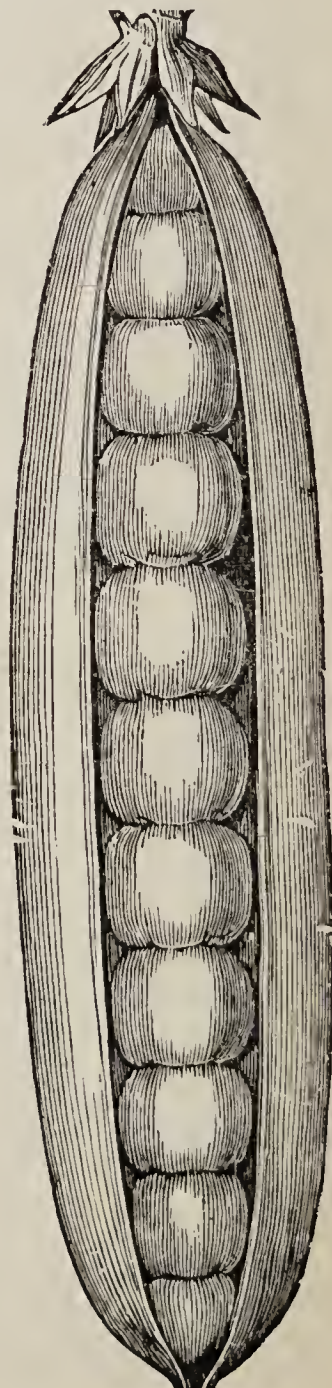
Foliage heavy, bushy, growing to a height of 10 to 12 inches, very productive, and matures in less than 40 days after sprouting. Pkt. 10c; 1 lb. 30c; postpaid.

ALASKA

Height 2½ feet. Very early and exceedingly uniform in maturing its crop. Postpaid, pkt. 10c; $\frac{1}{2}$ lb. 15c; 1 lb. 20c; (10 lbs. \$1.65, f. o. b. Boise.)

AMERICAN WONDER

Height 10 inches. The vines bear a great abundance of good sized pods containing five to eight large, exceptionally sweet, tender and well flavored peas. This is the earliest of the dwarf, wrinkled varieties. The seed is medium sized, wrinkled and pale green. Especially adapted for family use, as they require no brush. Postpaid, pkt. 10c; $\frac{1}{2}$ lb. 15c; 1 lb. 25c; (10 lbs. \$2.00, f. o. b. Boise).



DWARF TELEPHONE OR CARTER'S DAISY

Grows from 20 to 40 inches high; the vines are very vigorous, of a branching habit, and bear for a long time a great quantity of large, dark green pods. It is one of the best second early, and, on account of its nice appearance, brings the highest price on the market. Must be sown further apart than other peas. Postpaid, pkt. 10c; ½ lb. 15c; 1 lb. 25c; (10 lbs. \$2.00 f. o. b. Boise).

TALL TELEPHONE

This variety is one of the finest branching, tall, wrinkled marrows yet introduced. It is immensely productive, of the finest quality, and excellent sugary flavor; vines strong, averaging 18 to 20 pods per stalk; the pods are of large size and closely packed with six to eight large, delicious peas. Height 4½ feet. Postpaid, pkt. 10c; ½ lb. 15c; 1 lb. 25c; (10 lbs. \$2.00, f. o. b. Boise).

LITTLE MARVEL

An extremely valuable variety, especially suited to home gardens, and is also a splendid variety for early market gardening. It matures very early and produces large crops. The vines grow about 14 to 18 inches in height. The pods are dark green, fair sized, produced in pairs and are closely filled with seven to eight peas of extra fine flavor. Postpaid, pkt. 10c; ½ lb. 15c; 1 lb. 25c; (10 lbs. \$2.00, f. o. b. Boise).

HUNDREDFOLD

One of the best of the Laxtonian types; vine 2 feet high, sturdy, dark green and productive; pods dark green, 4 in. long, fairly broad and pointed, containing eight large, dark green peas; excellent quality. Postpaid, pkt. 10c; ½ lb. 15c; 1 lb. 25c; (10 lbs. \$2.00, f. o. b. Boise).

DWARF SUGAR EDIBLE PEAS

Two feet in height, producing a heavy crop of small, flat pods about 3 inches in length. Postpaid, ½ lb. 20c; 1 lb. 30c.

NOTT'S EXCELSIOR**An Ideal Pea for the West**

Dwarf, early variety, about 14 inches high and quite productive. The pods are three inches long, round and blunt at the ends. The peas are of medium size, green, wrinkled and of good quality. Postpaid, pkt. 10c; ½ lb. 15c; 1 lb. 25c; (10 lbs. \$2.00 f. o. b. Boise).

GRADUS

This excellent quality, wrinkled pea bears pods of large size and combines quality with earliness. It is very hardy; can be planted fully as early as the smooth peas; grows vigorous and healthy, vines 2½ feet in height; very prolific. The peas remain tender and sweet for a long time. Postpaid, pkt. 10c; ½ lb. 15c; 1 lb. 25c; (10 lbs. \$2.00 f. o. b. Boise).

LAXTONIAN

A new, early dwarf, robust, large podded pea of superior excellence, growth averaging 16 inches. The large pods are well filled, holding eight to ten peas. Laxtonian is so highly recommended that you should give it a trial. Postpaid, pkt. 10c; ½ lb. 15c; 1 lb. 25c; (10 lbs. \$2.00, f.o.b. Boise).

LITTLE GEM

Height, 16 to 18 inches. The vines are of dwarf growth and produce an abundance of round, well-filled pods 2½ to 3 inches long. The peas are green, wrinkled, of sweet, delicious flavor and excellent quality. Postpaid, pkt. 10c; ½ lb. 15c; 1 lb. 25c; (10 lbs. \$2.00, f.o.b. Boise).

SEED POTATOES

Write for Prices on Early and Late Varieties

SWEET POTATO PLANTS

Plants ready from May 1 to June 15. Our large experience in this line enables us to make shipments to long-distance points with comparatively no loss. However, we do not guarantee safe arrival, as oftentimes mail is delayed or something happens beyond our control. If wanted by mail, postage should be added, 15c for 50; 25c for 100 plants. Will make special rates on large lots.

RED AND WHITE YAMS, 50 plants 50c; 100, 85c. Write for quantity price.

YELLOW JERSEY, 50 plants, 50c; 100, 85c; 1000, \$7.50.

Order early.

RADISHES**The Secret of Growing Good Radishes**

The secret of growing good radishes consists chiefly in the observance of three points. First, they should be grown on light, quick soil. Second, they should be given plenty of water, and last but not by any means least, the right kind of seed should be sown. Radishes grow very quickly and if not supplied with sufficient moisture are likely to be pithy.

Sow seed ½ inch deep in the early Spring in rows one foot apart, and the more fertile the soil the faster they will grow. For a succession, sow every 10 days throughout the season and stir the soil sufficiently to keep out weeds. One ounce of seed required for 100 feet of row; eight to ten pounds of seed will plant one acre.

EARLY SCARLET GLOBE

A select forcing strain especially adapted for greenhouse and hotbed culture, but may be grown outdoors also with the best results. Has a small top and very early, being fit to pull as soon as Pon Plus Ultra, but is much larger when matured. The flesh is white and tender, making it desirable for gardeners whose markets demand a large first early radish. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; 1 lb. 80c.

**EARLY CRIMSON GIANT****The Largest Early Scarlet Turnip-Shaped Radish**

A new, early radish, double the size of any of the turnip-shaped type, but notwithstanding its immense size, does not get hollow and pithy. The flesh is sparkling white, solid, crisp, juicy and of the mildest flavor. Excellent for both forcing and open ground. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; 1 lb. 90c.

SPECIAL FRENCH BREAKFAST

It is oblong in shape, has a bright scarlet top and pure white tip. It matures quickly and is sweet, crisp, solid and tender. When offered for sale it quickly attracts the buyer's attention. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; 1 lb. 80c.

STERLING WHITE-TIP RADISH

After several years experience in growing many strains of White-Tip Radish, we gave this particular sort the name "Sterling" because of its fine shape, its uniformity, its handsome appearance, its solidity, its superiority in every respect to all other strains of this type of radish. It is very early and equally desirable for outdoor culture and forcing under glass. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; 1 lb. 80c.

WHITE ICICLE

The finest of early, pure white varieties. They are long and slender, and clear, pure white, making them very attractive when on sale and on the table. It is crisp and tender both when young and until it attains larger size, thus remaining in condition for use for a considerable time. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; 1 lb. 80c.

LONG SCARLET SHORT TOP

A standard popular sort. Grows to six inches in length, matures in 25 days and can be used before it is fully grown. The roots grow half out of the ground, are very uniform in shape, smooth and very bright red in color. It remains crisp and tender until fully grown. Excellent either for market or for private garden. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; 1 lb. 90c.

WINTER RADISHES

The merits of Winter Radishes are little appreciated, probably because they are seldom grown and few people have knowledge of their worth. Sow seed in the middle of June.

LONG BLACK SPANISH

One of the largest, latest as well as the hardiest of radishes. Roots of medium size, oblong, and flesh is of firm texture. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; 1 lb. \$1.00.

CALIFORNIA MAMMOTH WHITE

Pure white, about one foot long and two or three inches through, tapering to tip. The flesh is tender and crisp, keeping well through the winter. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; 1 lb. \$1.00.

CHINA ROSE

Bright rose color, flesh firm and piquant, cylindrical or largest at bottom, tapering abruptly to small top. One of the best for Winter use. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; 1 lb. \$1.00.



SALSIFY, or Vegetable Oyster

CULTURE—Sow early in Spring, in drills a foot apart, and when two or three inches high thin out to three or four inches. Its general culture is the same as that recommended for carrots. The roots are perfectly hardy and may remain in the ground during Winter, or may be stored in dry earth or sand.

SANDWICH ISLAND

Grows uniformly extra large, averaging fully double the size and weight of the roots of the old variety. Of very superior quality and delicate flavor. Postpaid, pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c.

SPINACH

BLOOMDALE OR SAVORY LEAVED

This is the earliest variety. Plant is of upright growth with narrow, pointed, crinkled leaf. It is very hardy. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; 1 lb. 60c.



LONG STANDING

This excellent variety comes quickly to maturity and remains in condition for use much longer than other sorts. The leaves are smooth and very dark rich green. One ounce will sow 100-foot row. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; 1 lb. 60c.

ROUND THICK LEAVED

A rapid growing variety forming clusters of large, very thick and slightly crinkled leaves. A favorite with market gardeners. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; 1 lb. 50c. Write for quantity price.

SQUASH

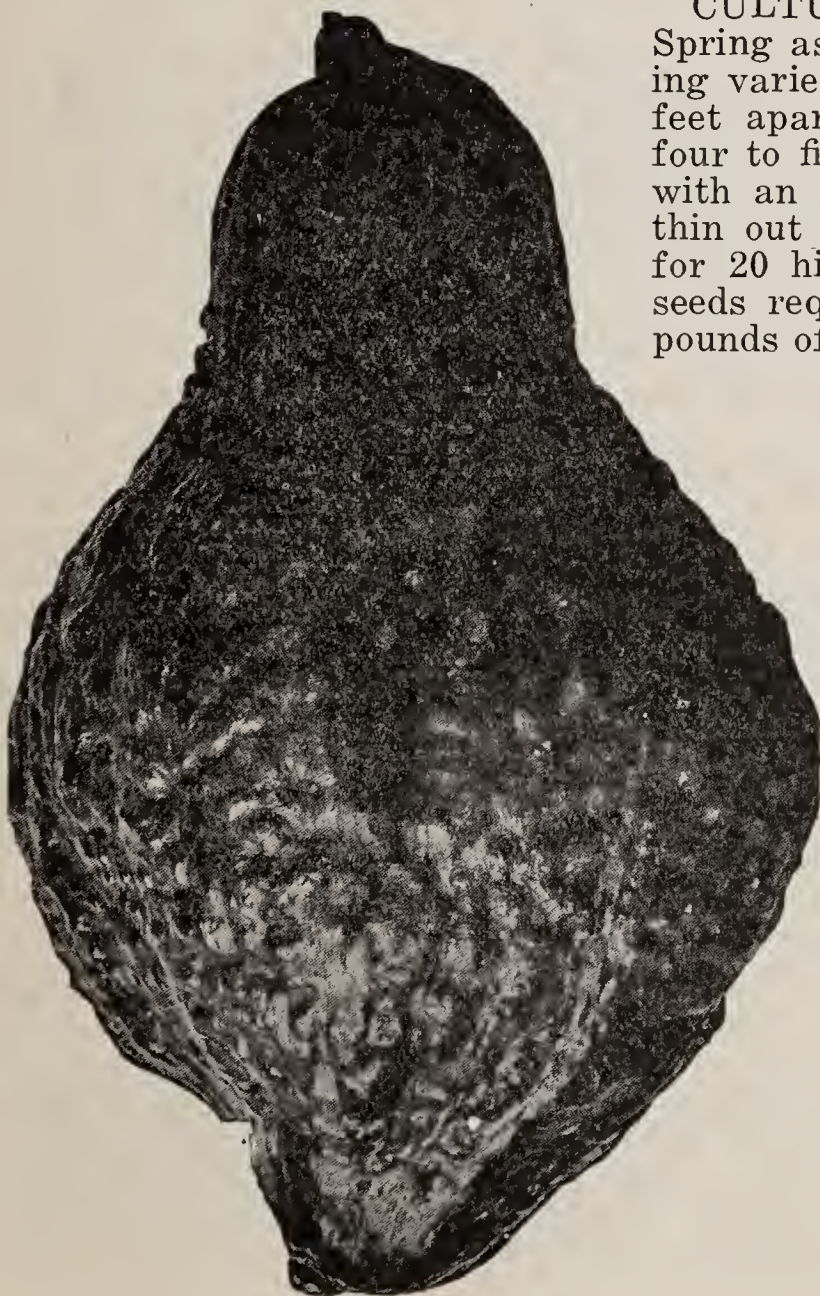
CULTURE—Plant seed in extra fertile soil in the Spring as soon as danger of frost is past. The vining varieties should be planted in hills eight or ten feet apart each way, and the bush varieties from four to five feet. Place 10 seeds in a hill and cover with an inch of soil. When the plants are started thin out and cultivate. One ounce of seed required for 20 hills. For running variety $3\frac{1}{2}$ to 4 pounds seeds required per acre. Bush varieties require six pounds of seed per acre.

BANANA SQUASH

Grows from one to two feet in length. Flesh firm and solid, of beautiful orange-yellow, and excellent quality. Rind or shell smooth and grayish-green color. Resists heat of the sun better than the Hubbard and, because of its excellent flavor and splendid keeping qualities, remaining in good condition from one season to another, is already superseding that variety in many localities. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 45c; 1 lb. \$1.50.

IMPROVED TRUE HUBBARD

The best seller and most popular variety on our list. Rind is dark green, warty and very hard. Flesh light orange, very dry, sweet and rich flavored. Has no superior. Keeps perfectly through the Winter. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. \$1.25.



RED OR "GOLDEN" HUBBARD

This is identical in size, form and fruitfulness with the Chicago Warted Hubbard, the chief distinction being that the heavily warted skin is of a rich orange-yellow, turning to a deep salmon-red when ripened. Postpaid, pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25.

MAMMOTH CHILI

Weight up to 100 lbs. Immensely Profitable. Very Productive.

Attain an enormous size, often reaching a weight of 75 pounds, and not infrequently weighs 100 pounds. Despite its size, its flesh is rich and fine flavored. It is especially desirable for stock feeding and exhibition purposes. From the illustration you will note its uniformly large size. For feeding cows it is best to cut them up, mixing with ground feed. As the yield an acre will run from 8 to 15 tons, it will thus produce a very cheap and nutritious feed. In feeding to swine all that is necessary is to break the Squashes open and the swine will help themselves. Mammoth Chili Squashes carry off the prize at nearly every show where they are exhibited. Postpaid, pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.35.

TABLE QUEEN

Introduced under the name of "Table Queen". Names changed at the request of Des Moines Market Gardeners Association. Vines are vigorous and very productive. Just the right size, averaging about 6 to 8 inches in diameter. Color dark green, with sometimes a blotch of red at pointed end. Shell is hard and smooth, and ridged. Just wash it clean, cut in half, take out the seeds, bake 20 minutes and you will have the nicest squash you ever tasted. Postpaid, pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.35.

GREGORY'S DELICIOUS

In dryness, sweetness and richness of flavor, surpasses all other Squashes. The shell is green in color, the flesh a rich orange. An excellent Winter keeper. Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25.

SIBLEY OR PIKE'S PEAK

Shell smooth, thin and of a pale green color; the flesh is thick, solid, deep orange color; very dry, fine grained with delicate flavor. Postpaid, pkt. 5c; oz. 15c; ¼ lb. 45c; 1 lb. \$1.50.

SUMMER VARIETIES**GOLDEN SUMMER CROOK NECK**

Early and prolific. The fruits are of the true crook-neck type, heavily warted and of light golden color; about one foot long. Postpaid, pkt. 5c; oz. 15c; ¼ lb. 40c.

WHITE BUSH SCALLOP

(Patty Pan.) Matures early and will bear throughout the season if fruits are kept gathered. Squashes are clear white and of large size. Flesh is thick and of very fine quality. Pkt. 5c; oz. 15c; ¼ lb. 40c.

ENGLISH VEGETABLE MARROW

Oblong, dull yellow skin, very prolific and of finest table quality. Postpaid, pkt. 5c; oz. 15c.

TOMATOES

The newest types of hardy, prolific tomatoes are better adapted to the cool coast climate than the older sorts; and splendid crops are now being grown where heretofore it was thought tomatoes would not thrive. A good plan is to try several varieties and find which is best suited to your special conditions.

CULTURE—Sow early in hotbeds, and as soon as they have four leaves transplant them into shallow boxes. Harden off, and set out as soon as danger of frost is past. An ounce of seed will produce 3,000 to 4,000 plants.

If blight appears use "Bordeau", but it is better to use a preventive before blight strikes the plant, and as a control measure for flea beetles spray under side of foliage.

CHALK'S EARLY JEWELL

The largest, smoothest and fine flavored, extra early, bright red tomato. About ten days later than Spark's Earliana. It is a heavier cropper, with tomatoes of larger size and sweeter flavor, produced throughout the season. Flesh is thick, solid, of fine flavor, with few seeds; the skin is strong enough to make it a good shipping variety. Postpaid, pkt. 5c; oz. 35c; ¼ lb. \$1.00, 1 lb. \$3.50.

DWARF STONE

Dwarf and compact in habit; sold by some seedsmen as the Tree Tomato. Stands up well, even when loaded with fruit, having a stiff, bushy stem; can be planted close together; very desirable in small gardens; early. It is always smooth and attractive; the skin is tough and flesh solid, but has no hard core, and is of good flavor. Postpaid, pkt. 10c; oz. 50c; ¼ lb. \$1.50.

BEEFSTEAK

The largest tomato; fruits are solid and of purplish-red color, sweet and of good quality. Postpaid, pkt. 10c; oz. 50c; $\frac{1}{4}$ lb. \$1.50.

JOHN BAER

Extra early, scarlet fruited, hardy and productive. Shippers should try it. Postpaid, pkt. 5c; oz. 40c; $\frac{1}{4}$ lb. \$1; 1 lb. \$3.75.

GROUND CHERRY OR HUCK TOMATO

Grows to great perfection under ordinary culture, yielding abundantly; very much prized for preserving. It should be in every garden. Pkt. 5c; oz. 60c.

NEW STONE

This new variety has obtained great popularity with canners, growers and market gardeners everywhere. Its solidity and carrying qualities are remarkable. Its color is a desirable red. In shape, perfectly smooth and thicker from stem to blossom than most varieties, making it very handsome and salable. Postpaid, pkt. 5c; oz. 40c; $\frac{1}{4}$ lb. 90c; 1 lb. \$3.50.

RED HEAD

Very early. Smooth as an egg. Deep red color. Very prolific yielder. Postpaid, pkt. 5c; oz. 40c; $\frac{1}{4}$ lb. \$1.00; 1 lb. \$3.75.

SPECIAL EARLIANA**The Earliest Tomato**

Of large, uniform size and beautiful red color. Ripens thoroughly all over, the stem end coloring up perfectly. Almost seedless and very solid. A most vigorous grower and heavy bearer, continuing until frost. Succeeds everywhere, and especially recommended for the coast. Postpaid, pkt. 5c; oz. 40c; $\frac{1}{4}$ lb. \$1.00; 1 lb. \$3.75.

YELLOW PEAR

A small, pear-shaped tomato, borne in great profusion, vine literally covered with large clusters of fine, solid fruits; excellent for preserving, and for use in salads and cooking is superior, as flesh is not watery. Very hardy. To this class belongs Yellow Plum. Postpaid, pkt. 5c; oz. 60c.

MARIGLOBE

A new variety developed by the United States Department of Agriculture. Very wilt-resistant and is a handsome deep red, globe-shaped tomato of great merit. Plants are vigorous, dark green and productive; fruits are quite large. A very desirable tomato for salad or slicing. Excellent for canning. Pkt. 10c; oz. 45c; $\frac{1}{4}$ lb. \$1.45; 1 lb. \$5.00.

TURNIPS

CULTURE—For early use sow the small sorts as soon as the ground can be worked in the Spring, in drills 14 inches apart. As this seed is very fine, it should be covered but slightly, except in very dry weather. For Fall and Winter use, sow the early kinds during July, August and September.

EXTRA EARLY WHITE MILAN

The earliest Turnip. Tops very small, distinctly strap-leaved, and growing very erect and compact. Bulbs form earliest of any sort. The clean, white roots are smooth, fit, symmetrical and handsome in appearance. The flesh is white, tender and sweet. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; 1 lb. 75c.

EARLY SNOWBALL

Very early, of medium size, round as a ball and pure white skin and flesh. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; 1 lb. 75c.

WHITE EGG

Is perfectly smooth, of a pure, clear white, being a very choice kind for table use; of excellent flavor. Pulls clean from the ground; thin, snow-white skin. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; 1 lb. 65c.

EARLY WHITE FLAT DUTCH

One of the very best and most universally grown. *Small, erect top, round, flat; flesh white, firm, but tender and sweet. Of quick growth, it is soon ready for the table and keeps well. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; 1 lb. 75c.

ORANGE JELLY**Or Robertson's Golden Ball**

Undoubtedly one of the most delicate and sweetest yellow-fleshed turnips yet introduced. Not so large size, but firm, hard and most excellent flavor; keeps well and is superior as a table variety. It is extensively used by market gardeners. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; 1 lb. 65c.



PURPLE TOP STRAP LEAF

A leading white-fleshed variety, and one of the best either for the family, market garden or field crop. It is medium size and produces a large crop. The flesh is firm but tender, and of a superior, rich buttery flavor. A good keeper. Postpaid, pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 65c.

PURPLE TOP OR WHITE GLOBE

A large, globe-shaped variety, purple above the ground. It is handsome and of excellent quality; recommended both for family garden and field crop. Postpaid, pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 65c.

RUTA BAGA OR SWEDE

IMPROVED AMERICAN PURPLE TOP

The leading standard variety, being distinct in type, attaining a wonderfully large size; immense yielder. The flesh is very firm, superior in every way, valuable alike for all purposes. Postpaid, pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 65c.

CARTER'S HARDY SWEDE

An excellent sort either for table use or stock feeding. Flesh yellow, solid, firm, sweet and rich. It is a hardy variety and yields heavily. Postpaid, pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 65c.

HERBS—Aromatic, Medicinal and Pot

- ANISE—An annual cultivated for its seeds and its leaves, which have a fragrant, agreeable scent, and a pleasant taste.....Pkt. 5c
- BALM—A hardy perennial of aromatic taste and a grateful, fragrant smell.....Pkt. 10c
- CARAWAY—The seeds are used for flavoring.....Pkt. 5c
- CATNIP or CATMINT—A great favorite among medical herbs.....Pkt. 10c
- CORIANDER—Annual; its tender leaves are sometimes used for soups and saladsPkt. 5c
- DILEPkt. 5c; oz. 10c; ¼ lb. 30c
- HOP—A popular variety for commerce.....Pkt. 10c
- HOREHOUND—Perennial; used as a tonic.....Pkt. 5c
- LAVENDER—Perennial; cultivated for its fragrant flowers and aromatic leavesPkt. 10c
- ROSEMARY—The tops only are used as a medicine.....Pkt. 5c
- SAGE—Perennial; tea made from the leaves is an excellent means of producing sweat.....Pkt. 5c; oz. 15c; ¼ lb. 45c
- SAFFRON—Annual; the dried flowers are used for medicinal purposes.....Pkt. 5c
- SAVOY—Annual; leaves are dried for culinary purposes.....Pkt. 5c
- SWEET BASIL—Annual, the leaves are used for highly seasoned dishes.....Pkt. 5c
- SWEET FENNEL—Perennial; tea made from the seeds is an excellent remedy in case of colic and stomach complaints.....Pkt. 5c
- SWEET MAJORAM—Biennial; the leaves are used in soups; the seeds in the manufacture of sausage.....Pkt. 5c
- SWEET THYMS—Perennial. Thyme tea is an excellent remedy for nervous headachePkt. 5c
- WORMWOOD—Perennial; used for medicinal purposes. Beneficiary to poultry and should be planted in every poultry yard.....Pkt. 5c

FLOWER SEEDS—(Flower Seeds All Postpaid)

Space does not permit us to list all flowers which we carry in stock. Write for varieties and prices.

ASTER, MANY SORTS MIXED

This very fine mixture embraces all varieties and all colors. The aster is one of the most charming of all flowers, sure to give pleasure and satisfaction under generous treatment. Pkt. 5c.

ASTER OSTRICH PLUME

Flowers large with very long, loosely curved petals. Very fine as cut flowers; height 15 inches. The colors are exquisite. Asters are especially popular for their beauty and lasting qualities. All colors mixed. Pkt. 10c.

BACHELOR'S BUTTON

Also known as Centurea, Cornflower, Blue Bottle, Ragged Sailor, Sweet Sultan, etc. These are among the most attractive of all hardy annuals and one of the most popular flowers. Mixed colors. Pkt. 5c.

CALENDULA, POT MARIGOLD

Freely flowering plants of easiest culture; succeeds everywhere, and flowering continuously. Flowers double, showy, of large size and pleasing colors. One of the best old-fashioned flowers. Pkt. 5c.

IMPROVED CREGO GIANT COMET ASTERS

This Aster resembles the Chrysanthemum very much in form. It is usually large, being 3 to 5 inches in diameter when well grown. The petals are very large, twisted and curled so as to give the blossoms a beautiful, fluffy appearance. They keep in good condition extra well when cut. The plants are luxuriant, branching growth, attain a height of 18 inches to 2 feet. Azure blue, lavender, purple, rose pink, shell pink, white, finest mixed colors. Pkt. 15c.

ALYSSUM SWEET

A very neat and pretty plant for edging, rock work, beds or vases. Sweet scented, blooms profusely all Summer. Pkt. 5c.

BALSAM OR LADY SLIPPER

Double Camelia Flowered. An odd and favorite garden flower, producing its gorgeous masses of beautiful, brilliant colored double flowers in the greatest profusion; of easy culture; succeeds in a good rich soil. Unrivalled for great variety and size of flowers. Two feet. Many colors and combinations. Pkt. 5c.

CARNATIONS, MARGUERITE

This new class of Carnation blooms in about five months after sowing the seed. The flowers are of brilliant colors, ranging through many beautiful shades of red, pink, white variegated, etc., exquisitely sweet, and fully 80 per cent perfectly double. The plants succeed alike in the open garden or in pots. Seed sown early in the year will give an abundance of flowers in July. Sown in May and kept pinched back, plants will bloom late in the Fall until checked by hard frosts. Mixed colors. Pkt. 10c.

CANNA, INDIAN SHOT

Dwarf Large Flowering French

Unquestionably the finest of bedding plants for the American climate and easily grown from seed. Soak the seeds in warm water until they swell, then sow in sandy loam and place in a hotbed. When up to the second leaf pot off singly and keep under glass until the proper planting season. A mixture of many varieties. Pkt. 15c.

COSMOS, EXTRA FANCY

Cosmos is the showiest of our late Summer and Autumn blooming annuals. Its graceful flowers borne on long stems, rising above the feather foliage are very desirable for home decoration, lasting a week or more in water. It is a very prolific bloomer and if the plants are given space to develop well will branch freely, every shoot being covered with a mass of lovely flowers. Crimson, white and rose. Mixed colors. Pkt. 5c.

CLARKIA

Bright and attractive annuals of easy culture. The long, graceful sprays are valuable for table decoration. They thrive in sun or shade, growing 2 to 2½ feet high, with masses of double flowers, which all open in water when cut. All colors mixed. Pkt. 5c.

CALLIOPSIS OR COREOPSIS

Showy and beautiful free-flowering annuals, blooming all Summer and excellent for cutting and massing. All colors mixed. Pkt. 5c.

CANDYTUFT

Universally known and cultivated. When sown in April, flowers from July until frost. Very hardy and easy to cultivate. Height one foot. All colors mixed. Pkt. 5c.

CYPRESS VINE

One of the most popular vines with delicate, fern-like foliage and masses of beautiful, small, star-shaped flowers. Suitable for porches, window boxes and baskets. All colors mixed. Pkt. 10c.

ESCHSCHOLTZIA OR CALIFORNIA POPPY

A very attractive annual for massing, beds or edgings; profuse flowering, with fine-cut foliage. All colors mixed. Pkt. 5c.

FOUR O'CLOCKS, OR MARVEL OF PERU

A handsome, free-flowering garden favorite, which succeeds everywhere. Give each plant 12 to 18 inches of room. Fine mixed colors. Pkt. 5c.

GYPSOPHILA, BRIDAL VEIL, BABY'S BREATH

Flowers in a few weeks after sowing. Its graceful panicles of dainty blossoms and feather foliage are unequalled for making up bouquets. Sow at intervals during the Summer.

Elegans alba grandiflora. Pure white. Pkt. 5c.

Elegans carmine. New shade. Pkt. 10c.

Elegans rosea. Rose. Pkt. 5c.

KOCHILA

Summer Cypress or Mexican Fire Bush. An easily grown annual, which sown thinly in Spring soon forms a cypress-like hedge of lively green and of perfect symmetry; it attains a height of about three feet, and on the approach of Autumn the whole plant becomes a deep red. Pkt. 5c.

LARKSPUR

This is one of the best known garden flowers. A vast improvement has been effected by careful selection and attentive cultivation, in size and color of the blossoms and the general habit of the plant. Hardy annuals. Mixed colors. Pkt. 5c.

LUPINS

Annual mixed. Very desirable garden plants, showy and excellent for cutting. Graceful spikes, 2 feet long, in various shades of white, blue, pink and yellow. Pkt. 5c

LOBELLA

Pleasing, half hardy annuals growing four to six inches high, liberally covered with small, bright flowers during the entire season. Pkt. 15c

MARIGOLD, AFRICAN

Plant grows 2½ feet high, producing large, double flowers about three inches in diameter; orange and lemon shades predominating. Pkt. 5c

MARIGOLD, FRENCH

Very free flowering annual of easiest culture. Dwarf in growth and very effective for bedding purposes. Covered with hundreds of small, bright flowers. Pkt. 5c

MIGNONETTE, SWEET SCENTED

A well-known, fragrant garden favorite. sowing made from May to July will give a succession of blooms from early Summer until frost. Pkt. 5c

MORNING GLORY

One of the most free flowering and rapid growing climbers in cultivation, thriving in almost any situation. Pkt. 5c

NASTURTIUM, STERLING DWARF MIXED

This popular flower is so well known as to require no comment. In this mixture are included the finest colors and combinations obtainable in the dwarf varieties. Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. \$1.25.

NASTURTIUM, STERLING TALL OR CLIMBING MIXED

Many prefer the climbing or running type for porches, trellises or rock work. They grow very rapidly and give an abundance of showy blooms and foliage. Nothing finer in a mixture can be found than this. All of the finest and rarest varieties are included. Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. \$1.25.

PANSY, BUGNOT'S SUPERB BLANCHARD

Extra large flowers, charming brown-red and bronze shades. An exceedingly beautiful strain. Pkt. 25c.

PANSY, GIANT FANCY MIXED

Great improvement has taken place within the last two or three years in the character of the largest pansies. Giant Fancy is the finest mixture of the larger varieties. For this is used only the seed from the very choicest blossoms. It includes many of the newest productions of famous growers. Pkt. 10c; ⅓ oz. 75c.

PANSY, BEDDING MIXED

Composed of many standard sorts admirably suited for beds or borders, strong growing plants, very free blooming. Pkt. 10c; oz. 50c

SHIRLEY POPPY

A charming, hardy annual with large flute and crinkled flowers in a variety of forms and colors. Pkt. 10c

PETUNIA

The Petunia is peerless among annuals for effective Summer bedding or window boxes. It is of easy culture, early to blossom and continues all the Summer until frost. No other flower produces a greater diversity of color or retains its freshness for a long period. The doubles may be perpetuated by cutting in late Summer for Winter house plants. Provide good soil and a sunny location. All colors mixed. Pkt. 5c

PHLOX DRUMMONDII

Of all the summer flowering annuals the varieties of Phlox Drummondii are unquestionably some of the most brilliant and satisfactory. Seed may be grown in the open ground any time after danger of frost is past, and in a few weeks the beds or borders are aglow with their brilliant coloring and remain so until cut down by frost. For early flowering they should be started indoors or in a hotbed. Mixed colors. Pkt. 5c

PINKS OR DIANTHUS

One of the most popular and magnificent flowers in cultivation, producing a great variety of brilliant colors and profusion of bloom. The annual varieties may be sown out of doors when danger of frost is past and in a few weeks' time they are a mass of bloom, continuing so until frost. One foot. All colors mixed. Pkt. 5c.

SALPIGLOSSI, PAINTED TONGUE

Very beautiful, hardy annual plants, flowering freely from July to early Autumn. Rich soil should be provided with plenty of space for plants to develop. Large flowering, mixed. Pkt. 10c.

POPPY

The most popular of all annuals, producing a gorgeous display of bloom, unequalled by any other annual. Single and double in choicest mixture. Pkt. 5c

for Early, Crisp Vegetables

*feed them this complete,
balanced diet*

VIGORO
Complete plant food



HELICHRYSUM—(Straw Flower)

Eternal Flowers. Monstrosum Fl. PL. A most popular, hardy annual; the flowers are large and the color bright; highly prized for winter bouquets. Flowers intended for drying should be gathered when partially unfolded and suspended with heads downward in cool and airy places.

POPPIES, STERLING DOUBLE MIXTURE

Includes all of the double varieties of large flowering poppies of all colors; also many varied tints and combinations of colors. Many of the blossoms are six to seven inches in diameter and as double as peonies, 30 to 36 inches high. They are fine for cut flowers or garden display. Pkt. 5c

SNAPDRAGON

Readily grown from seed and is a constant source of pleasure, being in bloom all the time; excellent as cut flowers, lasting many days. All colors mixed. Pkt. 5c

GIANT DOUBLE ZINNIA

One of the most brilliant and showy of annuals, and has long been a general favorite. They come in flower early in the Summer, and keep on blooming until hard frost. Mixed colors. This is considered the best type for a general use; forming bushy, compact plants not over 3 feet high and bearing flowers measuring 5 to 6 inches across. White, pkt. 10c; orange, pkt. 10c; salmon rose pink, 10c; dark scarlet, pkt. 10c; canary, pkt. 10c; bright scarlet, pkt. 10c; double mix, pkt. 5c.

PORTULACA OR MOSS ROSE

One of the finest hardy annuals, of easy culture, but thrives best in exposed sunny situations. The flowers are of the richest colors and are produced freely throughout Summer. All colors mixed. Pkt. 10c.

RICINUS CASTOR OIL BEAN

Ornamental plants of stately growth and picturesque foliage, with brilliant colored fruit, producing a sub-tropical effect; fine for lawns, massing or center plants for beds. Mixed. Pkt. 5c; oz. 20c.

SALVIA**(Flowering Sage)**

Half-hardy perennials, blooming the first year from seed if sown early. The plant grows three feet high and bears profusely during the Summer and Fall very fragrant flowers in drooping spikes of the most intense glistening scarlet. Splendid in working out color schemes if properly used. Salvia Splendens, pkt. 10c

VERBENA, MAMMOTH FLOWERING

The largest Verbena known, a single flower often being as large as a 25-cent piece. The beauty of this plant is well known and scarcely needs comment. All colors mixed. Pkt. 5c.

ECHINOCYSTIS, WILD CUCUMBER VINE

A well-known vine, common in many sections, and the quickest climber known for covering verandas, old trees and houses, trellises, etc., never suffering from the heat, but retaining its fresh and lively green color; never infested with insects, and very profuse in bloom. It will sow itself and come up in the same place. Sow seed in Fall. Pkt. 5c; oz. 20c.

SPENCER'S SWEET PEAS

Warrior, deep maroon.....Pkt. 10c; oz. 25c
Hawlmart, salmon pink.....Pkt. 10c; oz. 25c
Sybil Henshaw, scarlet.....Pkt. 10c; oz. 25c
Ivory Picture, ivory cream..Pkt. 10c; oz. 25c
Hercules, rose pink.....Pkt. 10c; oz. 25c
Avalanche, large pure
whitePkt. 10c; oz. 25c
Blue Bird, clear blue.....Pkt. 10c; oz. 25c
Power's Court, lavender....Pkt. 10c; oz. 25c
Golden Glory, glowing
orangePkt. 10c; oz. 25c
Mixed Spencers.....Pkt. 10c; oz. 20c

GOLD MEDAL OR SPENCER MIXTURE

Spencer varieties of Sweet Peas have come into general favor so rapidly that the demand has been large for all Spencer sorts in mixture. We have included in this combination nearly all of the Spencers, making it a rare and lasting pleasure to the growers. The vines are strong, healthy and vigorous in growth and produce a wonderful profusion, long and strong stemmed flowers of great beauty, size, perfect form and coloring. Those preferring to grow all sorts together, rather than separate colors, will find this unsurpassed. Pkt. 10c; oz. 20c; ¼ lb. 70c; 1 lb. \$2.50.

SCABIOSA, MORNING BRIDE

One of our handsome Summer flowers. The beautiful double flowers are produced in a great variety of colors. Excellent as cut flowers, lasting nearly a week after being cut. Pkt. 5c.

STOCKS

Stocks are among the most popular half-hardy plants for bedding, edging, pot culture and cut flowers. For brilliancy, diversity of colors, fragrance and profusion and duration of bloom they are unsurpassed. The Ten Weeks Stock are annuals, and from seed started indoors in March or April blooms will be had in July. Pkt. 10c

HARDY PERENNIAL FLOWER SEEDS

CULTURE—Everyone likes perennials because they are permanent—once established they increase in size and beauty. Many sorts are raised from seed, usually blooming the year after sowing. The seed bed must be well drained, fine and firm. If the soil is at all heavy, cover with one inch of sand. The seed may be planted from June 10th to early July. After soaking the seed 24 hours, sow the fine sorts in rows, 3 inches apart, on the surface of sand or well sifted soil, and press down with a board. Large seeds may be covered to twice their thickness. The bed must be kept shaded constantly with a screen made as follows: Nail common laths 2 inches apart on end strips. Place the screen over the bed on 4 bricks set end-wise. Water as required; when seedlings have two pairs of leaves, transplant into rows a few inches apart each way, and later, when they begin to crowd, transplant a second time. This involves extra work, but it is necessary to raise sturdy plants. Keep them shaded with the screens all Summer. In September, if well developed, they may be placed in their permanent locations where they are to blossom the following year, or left in the seed beds for early Spring transplanting. After the ground freezes hard, cover with evergreen or other branches and a few inches of straw or leaves loosely piled on top. In late March remove one-half the top mulch and loosen up the rest, to admit air. Take off the remainder gradually, as the season advances.

AQUILEGIA, COLUMBINE

Charming, hardy perennial plants growing from one to three feet high, bearing in countless numbers through May and June their exquisite blossoms of clear blue, white, rose, yellow, purple, striped, etc. For planting in permanent borders or naturalizing along the edge of woods or shrubbery they are unsurpassed.

Single Long Spurred Hybrids. All colors mixed. Pkt. 15c.

California Hybrids. Exquisite flowers, in yellow and orange shades, all with long spurs. Pkt. 15c

ANTHEMIS TINCTORIA, HARDY MARGUERITE

A native of England, grows about a foot high, bearing in profusion daisy-shaped yellow flowers which come in July and August. Pkt. 15c.

AGOSTEMMA, ROSE OF HEAVEN

An attractive, free-blooming, hardy perennial, of easy culture, producing bright colored flowers on long, slender stems. Blooms first season, fine for cutting, two feet. Pkt. 15c

ANCHUSA ITALIAN DROPFORE VARIETY

Blue, large, forget-me-not-like flowers. Very fine for the back of the perennial border or for a screen. Five feet high. Pkt. 15c.

ARCHILLA, DOUBLE WHITE YARROW

One of the best hardy white perennials. Grows about two feet high and from Spring until frost is covered with heads of purest white, double flowers. Pkt. 15c.

BELLIS—ENGLISH DAISY

Daisies are easily raised from Spring sown seed, and come into flowers in a very short time. They thrive best in cool, shady places, but do well in almost any soil. They are very pretty when in bloom and deserve to be grown more universally than they are. Admirably adapted for edgings, borders and low beds; 6 to 8 in. Double mixed, embracing all colors. Pkt. 15c.

ALYSSUM SAXTILE COMPACTUM

Has handsome masses of bright yellow flowers. Fine for borders. Pkt. 15c.

ARABS ALPINE

A low early blooming perennial with white, fragrant flowers. For rock work, borders or covering steep banks. Pkt. 15c

BOLTONIA—FALSE CHAMOMLIE

One of the showiest of our native hardy perennials, growing 4 to 6 feet high, with daisy-like flowers in countless thousands from July to September.

Asteroides, white.....Pkt. 15c
Lastisquama, lilac pink.....Pkt. 15c

CAMPANULA—BELLFLOWER

Beautiful, hardy, herbaceous perennials, bearing a great profusion of attractive bellflowers; thrive best in light soil. They will continue to bloom for weeks if given a partially shaded location.

C. carpatica. Very charming plant six to eight inches high, deep blue flowers. Pkt. 15c.

CANTERBURY BELLS — CAMPONULA CALYCANTHEMA

Cup and Saucer. Produces beautiful single flowers three inches in length with saucers three to four inches in diameter. The plants form pyramids of bloom bearing from 100 to 200 of these exquisite blossoms for weeks during the early Summer. A hardy biennial 2½ feet high, flowering the second season from seed. Mixed, all colors. Pkt. 15c.

COREOPSIS

C. Lancelata Grandiflora. A hardy perennial about two feet high. This produces an abundance of large, daisy-shaped flowers on long stems. One of the best of all perennials for cut flowers. Pkt. 15c.

CANTERBURY BELLS — CAMPANULA MEDIUM

The old-fashioned variety which produces large, bell-shaped flowers. Popular and beautiful are Campanulas. Although the Canterbury Bells are biennials, they may also be treated as annuals, and will flower the first year from seed, if sown early in the Spring.

Dark blue.....Pkt. 15c
RosePkt. 15c
Single mixed, all colors.....Pkt. 15c
Double mixed, all colors.....Pkt. 15c

GAILARDIA

Blanket Flower. A very free blossoming perennial bearing large yellow or red daisy-shaped flowers all through the Summer. Easy to grow. Fine for cutting; two feet. Mixed colors. Pkt. 15c.

CARNATION HARDY BORDER

Carnations are general favorites for their delicious fragrance and richness of colors. They are indispensable, both for greenhouse culture in Winter and for the garden in Summer. The Marquerite and Chabaud types are the best for Summer flowering.

Double mixed. A good hearty strain for outdoor culture, flowering the second season and producing a mass of flowers in a great variety of colors. $\frac{1}{8}$ oz. 50c; pkt. 15c

CHRYSANTHEMUMS

C. Maximum. Ox Eye Daisy. Flowers like the wild white Daisy, but twice as large. Handsome when in flower and the flowers have good stems for cutting. Hardy and easily grown in full sun. Pkt. 15c

Shasta Daisies. Alaska. An excellent hardy perennial variety. Flowers 4 to 5 inches across, of the purest glistening white, with broad overlapping petals and borne on strong stems; a beautiful cut flower, remaining in good condition a week or more. $\frac{1}{4}$ oz. 75c; pkt. 25c.

DELPHINIUM—HARD LARKSPURN

Few plants are so handsome as the perennial Larkspur. The most important are the tall hybrids, varying from 1 to 6 feet, and from the palest lavender through every conceivable shade of blue to deep indigo.

GOLD MEDAL HYBRIDS

Height 6 feet. Unquestionably the finest strain of mixed hybrids offered. Large flowers on spikes two feet and over, the majority running in the light shades of blue. Mixed colors. Pkt. 15c.

BELLADONNA (Light Blue)

Two feet; flowers exquisite shade of turquoise blue. Pkt. 25c.

Double Hybrids. Finest double flowering mixed in great variety of charming colors. Pkt. 15c.

LUPINUS POLYPHYLLUS—LUPINE

This will be found a great acquisition to any garden. It forms dense bushes about 4 feet high, of elegant spikes completely clothed to the ground with snowy-white and deepest sea blue flowers. Mixed.

Pkt. 15c

SCABIOSA CAUCASCA

While resembling the shape of the annual Scabiosa, this hardy variety bears large blooms of a delicate lilac blue shade. The plants will grow about 2 feet high, blooming from July until frost. A fine plant for borders or cut flowers. Pkt. 15c

DIANTHUS—HARDY GARDEN PINKS

These varieties are well adapted for beds and borders; delightful, refreshing, spicy odor, popularly known as "Sweet May Pinks" of the old-time gardens, and still considered among the most beautiful for massing and cutting.

Plumarius. (Grass Pink or Pheasant-eye Pink) Single, with fringed edged flowers of various colors. Pkt. 15c.

Plumarius FI.-PI. (Double Hardy Garden Pinks.) Double and semi-double varieties in beautiful colors. Pkt. 15c.

Plumarius Semperflorens. (Ever-blooming Hardy Garden Pink.) Very beautiful, sweet scented, double, semi-double and single flowers in great diversity of color.

Pkt. 15c

Dianthus Latifolius Atroccineus FI.-PI. (Ever-blooming Hybrid Sweet William.)

A cross between an annual Dianthus and Sweet William, combining the free and continuous blooming qualities of the former with the hardiness of the latter; in color an intense velvety crimson scarlet.

Pkt. 15c

HIBISCUS—NEW GIANT FLOWERING MARSHMALLOW

Wonderfully improved form of our greatly admired native Marshmallow, in which flowers of great size—frequently 10 to 12 inches in diameter—have been developed. The colorings comprise rich, deep, red, soft pink and pure white. Plants grow 5 to 8 feet high. Blossom from July to late Autumn. Pkt. 15c.

PENTSEMON—BEARD TONGUE

Attractive plants, much used in the hardy border. The bushes are pyramidal, 2 to 3 feet high, with erect branches thickly set with flowers $1\frac{1}{2}$ inches long, varying in all shades from rosy-white to purple with white or veined throats. Mixed colors. Pkt. 15c.

GYPSOPHILA PANICULATA

Baby's Breath. Bridal Veil. The plants are small, starlike and borne in feathery sprays, which are highly esteemed for cut flowers as they lend a most graceful effect when combined in bouquets. This pleasing flower should be in every garden, for it is almost indispensable in the arrangement of flowers, either in vase or bouquet work.

Pkt. 15c

DIGITALIS—FOXGLOVE

A very interesting family of old fashioned plants, whose culture is so simple as to bring them within the reach of all.

D. purpurea, var. glovinioides. This has a very great variety of colors, but as it is difficult to keep the true when growing separately, we offer it only in a mixture. Everyone should plant this strain. It grows in strong clumps and is one of our very finest hardy perennials. Pkt. 15c.

PERENNIAL POPPIES

These hardy varieties are very beautiful, blooming from June to frost.

Iceland Poppy. Similar to the annual Shirley Poppy, but in addition to the white, red and pink shades of the latter, the Iceland Poppy is often a fine yellow-orange color. Pkt. 15c.

Orientele. (The large Oriental Poppy.) A charming Summer flowering, hardy plant, producing numerous leafy stems about 2½ feet high, with large deep crimson flowers, having a conspicuous black blotch on each petal; exceedingly showy. Pkt. 15c.

Oriental Poppy Mixed Hybrids. One of the most gorgeous of all perennials, producing in June and July its enormous blossoms, often 6 inches in diameter. The colors range from soft bluish and rose to flaming scarlet and richest maroon. The flower stems are long and heavy, bending gracefully under the weight of the blossoms. The culture is simple. The plants are at their best when about 3 years old. Often one specimen will show 10 or 15 blooms. All colors mixed. Pkt. 15c.

TRITOMA—RED-HOT POKER

Although these are hardy plants, many will flower the first year if the seed is sown early. They grow about 3 feet high and bear in August blazing, orange-red spikes, blooming until frost. Very effective for cut flowers. Pkt. 15c.

CHATER'S DOUBLE HOLLYHOCKS

The Chaters produce for the most part flowers which are densely double, although occasionally some single blossoms are seen among them. The colors are innumerable, ranging from pure white to darkest maroon; some are bright and gay, others of the softest and most delicate shades and tints. The stalks average about 4 feet in height, but many are 6 feet and even 8 feet high. These stalks are densely covered with blossoms as beautiful in texture and appearance as the Rose.

Extra choice double mixed. Pkt. 15c.

GEUM

Flowers are large, buttercup shaped, borne in profusion; lasting well when cut, they are fine for bouquets.

G. Double Scarlet. Large flowers, fine color, 2 feet. Pkt. 15c.

WALLFLOWER

Half hardy perennials bearing dainty, yellowish, red or orange flowers, which have a delicious fragrance. These new, early flowering varieties may be treated as annual, and if sown in heat during February or March the plants will bloom freely through the Summer and Autumn. Excellent for forcing. Height 2 feet.

Single mixed, all colors.....Pkt. 15c
Double mixed.....Pkt. 15c

BULBS

All the roots offered in this catalogue will be supplied in dormant field-grown roots or in strong divisions of such roots of proper planting size.

DAHLIAS

Postpaid, 30c Each

Judge Marean—Salmon pink, shaded lighter in center, decorative.

Jersey Beauty—Salmon pink, decorative.

Our Country—Purple with white tip on petals.

Thomas A. Edison—Dark purple.

Jane Cowe—Orange-buff.

Wizard of Ozz—Amber, pink.

Marmion—Large yellow.

Mrs. Carl Salback—Pink shade to white.

Jersey Beacon—Chinese scarlet.

Grisley—Dark red.

Rodman Wanamaker—Light salmon, yellow center.

Patrick O'Mara—Orange, decorative.

Millionaire—Lavender, decorative.

Ethel F. T. Smith—White shaded to yellow, cactus.

Washington City—White, cactus hybrid.

Insulinda—Orange shaded to cream, cactus Hybrid.

GLADIOLI

All Gladioli can be furnished in straight colors or mixed at dozen rate, postage prepaid. No. 1 bulbs, each 4c; doz. 40c. No. 2 bulbs, each 3c; doz. 30c.

Mrs. Frank Pendleton—Salmon pink, red throat.

Le Marshal Foch—Light pink.

Prince of Wales—Salmon pink, cream throat.

Dr. Bennett—Best red.

Geraldine Farrar—Dark lavender.

Purple Glory—Purple.

Break o' Day—Coral pink.

W. H. Phipps—LaFrance pink. 60c doz.

Phetzer's Triumph—Red, 60c.

Minuet—Lavender, 60c.

VIGORO
Complete plant food

CANNAS**Dry Roots. Each 15c****President**—Medium red.**Red Humbert**—Tall, red foliage.**Yellow Humbert**—Tall, yellow spotted red.**Wyoming**—Red foliage, dwarf.**Iris**—Some very choice Iris. All bulbs 10c each, \$1.00 per doz.

Blue, yellow and purple, yellow shaded to pink, lavender, light purple, yellow and brown.

PERENNIAL PLANTS

All Perennials are two years old, field grown plants. Postpaid.

Giant Shirley Digitalis—Fox Glove, in mixed colors. Each 15c; 3 for 40c.**Canterbury Bells**—Mixed colors. Each 10c; 3 for 25c.**Pprethrum Daisies**—Painted Daisy, mixed colors. Each 15c; 3 for 40c.**Phlox**—Red, white and pink. Each 15c; 3 for 30c.**Geum**—Double scarlet. Each 15c; 3 for 40c.**Hardy Chrysanthemums**—Red, yellow, white, bronze, pink. Each 15c; 2 for 25c.**Gypsophilia**—Large plants. Each 30c.**Shasta Daisies**—Large, white. Each 15c; 3 for 40c.**Oriental Poppies**—Pink and crimson. Each 15c; 3 for 40c.**Delphinium**—Dark and light blue. Each 15c; 3 for 40c.**Bleeding Heart**—Large roots. Each 75c**Anchusa**—Large blue flowers. Each 15c; 3 for 40c.**Columbine**—Long spurred hybrids. Each 15c; 3 for 40c.**Coral Bells**—Pink. Each 15c; 3 for 30c**Snapdragons**—Mixed colors, 1-year-old plants. Doz. 30c.**Pansies**—Mixed colors. Doz. 50c.**Bellis Daisies**—Mixed colors. Doz. 50c**Chinese Lanterns**. Each 15c; 3 for 40c.**VEGETABLE PLANTS**

We are prepared to furnish plants, in any quantity, of the varieties described below, all Idaho grown, especially for us. The plants are grown from select seed and you can depend on the plants being true to name. We exercise great care to produce strong, vigorous plants and see that they are packed properly for transportation. We advise sending by express, and the following prices DO NOT INCLUDE POSTAGE. IF wanted by mail, add 8c per dozen, or 30c per 100, postage. Write for quantity price.

TRANSPLANTED PLANTS**EARLY CABBAGE**—Jersey Wakefield, Early Copenhagen Mkt.....Doz. 20c; 100 \$1.25**TOMATOES**—Special Earliana, Chalk's Early Jewel, John Baer,

Mariglobe, Red Head, Early Penderosa, Beefstead, Burbank.....Doz. 25c; 100 \$1.50

CAULIFLOWER—Early Snowball.....Doz. 25c; 100 \$1.25**PEPPERS**—California Wonder, Bull Nose, Pimento.....Doz. 25c; 100 \$1.50**EGG PLANT**—New York Improved.....Doz. 25c; 100 \$1.50**EARLY CELERY**—White Plume, Golden Self Blanching.....Doz. 20c; 100 \$1.25**FROM SEED BED****LATE CELERY** (from seed bed)—Giant Pascal, Golden Self Blanching

Doz. 20c; 100 \$1.25

LATE CABBAGE.....

Doz. 20c; 100 \$1.00

Write for Quantity Prices

MASTODON EVERBEARING STRAWBERRY PLANTS

The largest fruiting of the everbearing sorts, yet notwithstanding its size it is also the most prolific, bearing continuously from June until frost, fruit firm and of excellent flavor. 100, \$1.10; per M, \$9, postpaid.

ANNUALS

Glenn Mary, mid-season; New Oregon, mid-season; Hood River, early. All plants from new planting, well rooted and strong. Plants state inspected. 100, \$1; per M, \$8.

SEED POTATOES

We carry Netted Gems, Early Ohio, Idaho Rural and Bliss Triumph potatoes. This seed is all grown on dry land and is good, clean stock. Write for prices.

SELECTED SEED FIELD CORN

Prices Subject to Change Without Notice. Write for quantity price. Price as quoted below will be for shelled corn only. All field seed F. O. B. Boise.

Farm and Field Seed Department

IDAHO YELLOW DENT

Our Idaho Yellow Dent is particularly adapted to this climate. Our seed is pure and grown especially for us. We recommend growing this corn for silage, as the stalks grow to a height of from 10 to 12 feet, producing solid ears of corn that will average 9 inches in length; 8 to 10 pounds of this corn will plant one acre. 1 lb. 8c; 15 lbs. \$1.00. Write for price.

WHITE PEARL (Dent)

We have had splendid success with this new variety of white Dent corn. Stalks growing from 8 to 12 feet. Ears running from 10 to 12 inches long. A splendid variety for ensilage. Has fully matured for the past four years. This corn is worthy a trial. Write for quantity price.

WHEAT, OATS, RYE, BARLEY, CLOVER

FEDERATED—Spring Wheat

It is a hard flint wheat. The government test proves it to be high in gluten and high in yield of flour, making it one of the best milling wheats. Beardless and a heavy producer, and should be an excellent variety for the Northwest. We highly recommend it. 100 lbs. \$1.45. Write for prices.

SWEDISH SELECT SEED OATS

For 15 years Swedish Select Oats have never failed to produce a record crop; not small patches under favorable conditions, but big average yields throughout large fields, such as the Polk County record of 135 bushels per acre. Write for price.

COMMON RYE

Planted extensively in both Spring and Fall. Write for quantity prices.

IDAMINE

These oats are very handsome and heavy white oats of great productiveness, and have become very popular. They do very well on ordinary soil. On rich, heavy land they grow so rank, the straw not being large in proportion to their weight, that they are inclined to lodge. Large yields have been reported for this oats. 100 lbs. \$1.40. Write for quantity prices.

WHITE HULLESS BARLEY

It is not a malting variety, but for feeding purposes there is no barley raised which can compare with it in earliness, yield and quality. While it has sufficient hull to hold it in the head, these hulls are readily separated in threshing. The absence of beards makes it safe to feed to all kinds of stock. Its earliness is a characteristic which is especially desirable. It will mature in from 60 to 90 days, according to soil and locality. Write for prices.

POPCORN

Plant at least a few rows for the children. They and the grown folks also will enjoy popcorn in the long winter evenings.

WHITE RICE

A very handsome variety, very prolific. Price, 1lb. 15c, postpaid.

JAP HULLESS

Short ears and small grains which pop to a good size. The corn popped is deliciously tender, and when you have once eaten this corn you will not want to go back to the other varieties again.

This corn always brings a premium on the market. Price, 1 lb. 15c, postpaid.

TREBI BARLEY

One of the heaviest producers and surest crops for this section of the country. 100 lbs. \$1.35. Write for quantity prices.

TIMOTHY

As a crop for hay, timothy is probably unsurpassed by any other grass. It is greatly relished by all kinds of stock, especially horses. It yields more nutritive matter than any other grass or forage plant. It is not suited for a permanent pasture, as it will in course of a few years run out. It is, however, well adapted to early Spring grazing, as it starts up quickly in the Spring, and in favorable Fall weather can be pastured in the Autumn as well. 1 lb. 15c; 100 lbs. \$12.00.

MAMMOTH RUSSIAN SUNFLOWER

The largest and most productive variety. It makes one of the best foods for poultry; a great egg producer. Postpaid, lb. 20c; 5 lbs. 90c; 10 lbs. \$1.75. Write for quantity prices.

WHITE DUTCH CLOVER

Trifolium Repense

Excellent for pasture, and when mixed with Kentucky Blue Grass makes the finest and most nutritious food for sheep and cows. Used universally for lawns in most of the United States. Sow for pasture 5 to 8 lbs. to the acre. 1 lb. fancy 50c. Write for quantity prices.

MEDIUM RED CLOVER

This is regarded as the most valuable of the clover family. It is sometimes called June clover and is a dependable all-around variety for farmers and stockmen. It makes two crops each year. The first is usually cut when it is in blossom for hay; the last crop may be harvested for seed, cut for hay, or plowed under to add fer-

tility to the soil. It may be sown either in the Spring or Fall, and if no other grasses are used, at the rate of from 8 to 12 pounds to the acre, according to quality of seed used and condition of the soil. Clover adds greatly to the fertility of the land on which it is grown. It does not exhaust the soil, but enriches it. Write for quantity prices. 1 lb. 20c; 100 lbs. \$16.00.

LADINO WHITE CLOVER

Also known as Giant White or Italian White. Is a very large form of clover, usually making a growth of 8 to 12 inches as compared to the usual 3- or 4-inch height. It is a perennial. The stems lie flat on the ground and commonly root at the joints. It is not a deep-rooted plant and consequently can be grown on rather shallow land where well supplied with humus and moisture.

ALSIKE OR SWEDISH CLOVER

This is one of the hardest varieties known. It is perennial and does not winter kill. It will do better on moist land than any other variety of clover, and is suitable for either hay or pasture. When sown with other grasses it forms a thick undergrowth and greatly increases the yield. It is frequently sown both with Medium Red clover and with timothy, and the quality of hay thus produced is excellent. 1 lb. 25c; 10 lbs. \$2.25.

WHITE SWEET CLOVER

Every year more farmers are learning the real value of some sweet clover as a dry land pasture and sure hay crop. Sweet clover is much hardier than all other members of the clover and alfalfa family. It is a biennial plant and makes a much better hay crop the second year than the first. 1 lb. 15c; 100 lbs. \$11.00.

YELLOW SWEET CLOVER

The yellow clover does not grow as tall as the white and can be cut near the ground like alfalfa. It makes an excellent hay as the stocks are not too coarse and very fine in texture. It is especially adapted for the higher dry land. Sow 12 to 15 pounds to the acre. 1 lb. 15c; 100 lbs. \$12.00.

IDAHO GROWN ALFALFA

A very popular variety. Ten to 12 pounds are usually sown to an acre. Write for quantity prices. 1 lb. 20c; 100 lbs. \$16.

CERTIFIED GRIMM ALFALFA Blue Tag

Highly recommended by the government and state experiment stations as being one of the hardiest known strains of alfalfa. Usually there is not enough seed to meet the demand and the price is high. 1 lb. 25c; 100 lbs. \$23.00. Write for quantity prices.

IDAHO GROWN ALFALFA

The extension of alfalfa growing into the regions of limited rainfall has created a demand for alfalfa seed especially adapt-

able to those conditions. Seed which has been produced from alfalfa grown on dry land and without irrigation is, of course, much preferable for dry land culture to seed produced under irrigation or normal rainfall. Write for quantity prices. 1 lb. 20c; 100 lbs. \$16.00.

FLAX

The greatest value for a reasonable price; uniformly superior quality, carefully selected for high purity and strong germination. 1 lb. 20c. Write for quantity prices.

KENTUCKY BLUE GRASS

This makes the best, sweetest and most nutritious pasture for all kinds of stock. It is very hardy and is uninjured by cold or dry weather, hot sun or tramping hoofs. The roots are so thick and stout that they form a tough sod. Blue Grass requires two years to get well started and for that reason is often sown in mixture with other grasses. From 20 to 25 pounds to the acre. 1 lb. No. 21 lb. seed 35c. Write for quantity prices.

RED TOP (Solid Seed)

A valuable grass for moist, rich soils, where it thrives very luxuriantly. It is a good variety to sow with timothy and clover for meadow and pasture and is more permanent than either of the other two. It should be fed close. If it is allowed to grow up to seed, cattle dislike it. 10 lbs. to the acre. 1 lb. 20c; 100 lbs. \$18.00.

ORCHARD GRASS

A valuable grass for pasture or hay land. It furnishes the first green grass in the Spring and until in the Fall. When closely cropped it grows up very quickly and is ready for grazing again in 10 or 12 days. It will stand drought and is hardy. It grows in tufts, and is therefore best sown with Red Clover, rye grass, etc. It is well suited for shady places. Sow 22 pounds to the acre. 1 lb. 20c. Write for quantity prices.

SOUDAN GRASS

An annual plant of the sorghum family that has been successfully used for hay and silage. It is drought resisting and produces a good yield of fine stemmed feed. 1 lb. 15c. Write for quantity prices.

MEADOW FESCUE, ENGLISH GRASS

Especially suited for permanent pasture and is also fine for hay. Grows two to three feet high but not in tufts like Orchard Grass. The hay is very nutritious and cattle thrive on it whether it is dry or green. Succeeds even in poor soil, and as the roots penetrate deep, from 12 to 15 inches, it takes extremely dry weather to affect it. As a fertilizer it has valuable properties. It will endure severe freezing and its use is becoming more widespread each year. 24 lbs are sown to the acre. 1 lb. 20c; 100 lbs. \$18.00.

WESTERN RYE GRASS

(*Appopyrum Tenerum*.) (Sometimes called Slender Wheat Grass.) It affords excellent pasturage and provides large quantities of hay. It thrives on all soils, but is peculiarly adapted to prairie soils. It gives good returns on land quite strongly impregnated with alkali and fits it so that grain may be sown successfully.

When sown alone as the common practice, the seed should be put in from one to three inches deep, according to soil and season, 15 pounds to the acre. If with *Bromus Inermis*, 7½ pounds each. Write for prices.

FETERITA

This is the most recent of non-sacherine sorghums to command the attention of "dry farmers" on account of its wonderful yield and drought resistant qualities, being 20 to 40 days earlier than Kaffir Corn, and has given immense crops in the driest seasons without having received a drop of rain. Makes splendid fodder as well as giving a good grain yield. Try Feterita. 1 lb. 10c. Write for quantity prices.

BROMUS INERMIS

Drought defying, frost resisting. Yields enormous crops of splendid hay and affords early and abundant pasturage. It starts from two to three weeks earlier in the Spring than native prairie grass and it keeps green in the Autumn longer than any of the useful grasses grown in the West. No amount of cold seems to be able to kill it. It bears up well under hot Summer suns. It will grow under conditions that are very dry, and it can also stand being covered with water, not deep, of course, for one or two weeks in the early Spring.

This grass may be sown at any time of the year when the ground is bare, but the best season is in the Spring, and with or without a nurse crop. Fifteen pounds of good *Bromus Inermis* an acre is sufficient. Ask for prices. 1 lb. 20c. Write for quantity prices.

EARLY FORTUNE MILLET

A most promising variety, of which astonishing yields are reported. It is very early, and is claimed to be rust proof, and that cinch bugs will not eat the plant. The seed is very beautiful and distinguished in appearance and is of a beautiful red color. The seed is two or three times the size of German Millet. This variety heads in from 25 to 35 days. It gives a large yield both of seed and fodder. It can be fed to horses and other stock without injury, even when cut so late that the seed has formed. The seeds are smooth, the heads are branching and in other respects this variety is similar to Hog Millet except for the color of the seed. 1 lb. 10c; 12 lbs. \$1.00.

GERMAN MILLET**True Southern Grown Seed**

Millet seed produced in the North, even from southern seed, becomes what we call Common Millet. Not only does the plant change in character, becoming coarser and much more dwarf, but the seed itself shows a change, and is readily distinguished by those experienced in handling.

German Millet is very sweet, palatable, and when fed to dairy cows produces a large amount of milk. On good, rich soil it grows four or five feet high. It is very tender if cut at the right stage, which is when it is in full bloom. About three-fourths of a bushel of seed is sown to the acre. A good yield is from three to five tons of hay to the acre. 1 lb. 10c; 12 lbs. \$1.00. Write for quantity prices.

MANITOBA OR HOG MILLET

The seed is very rich and thus especially valuable as a hog feed. A very much prized peculiarity of this millet is that the seed ripens while the stem is yet green; thus if cut promptly can be threshed for the seed, while the hay, after being threshed, will make excellent fodder. Sow same as other millet. 1 lb. 10c. Write for quantity prices.

CANADIAN FIELD PEAS, GREEN

Height of vine 3 to 4 feet. Of the same general character as Canada Yellow Peas. Used for the same purpose, but the seed is green instead of yellow. 1 lb. 10c; 100 lbs. \$5.50. Write for quantity prices.

DWARF ESSEX RAPE

It is an annual, bearing a close resemblance in leaf and stalk to the Ruta Baga, but both leaves and stalks are more numerous in the Rape plant, and of a taller habit of growth. It is a pasture plant which may be eaten off by any kind of livestock, but it is pre-eminently fitted to furnish pasture for sheep, cattle and swine.

A good crop will furnish at least 12 tons of green food an acre. 1 lb. 15c; 25 lbs. \$3.30.

PEANUTS

The peanut is grown in this locality and does well if properly taken care of. Should be planted about April 15th and may be in hills about 3 feet apart each way. Seed may be hulled or in pod. Per lb. 30c, post-paid.

EARLY AMBER CANE

Furnishes a large yield of most nutritive forage, which can be fed either green or cured and will yield two or three cuttings a year, stooling out thicker each time it is cut. It grows 10 to 12 feet high. Sow broadcast for forage at the rate of 60 pounds per acre. When sown in drills, sow at the rate of 10 pounds per acre in drills 3½ to 3 feet apart. 1 lb. 10c; 100 lbs. \$6.00.

EGYPTIAN CORN

1 lb. 15c

Also called Jerusalem Corn or Dhoura
SPECIAL PASTURE MIXTURES

Recommended by

**UNIVERSITY OF IDAHO
 AGRICULTURAL EXPERIMENT
 STATION**

Gooding Sub-Station

The most satisfactory mixture for ordinary conditions such as exist at the station farm is as follows:

Orchard Grass.....	5 pounds
Smooth Brome Grass.....	5 pounds
Meadow Fescue.....	4 pounds
Timothy	4 pounds
Kentucky Blue Grass.....	4 pounds
Alsike Clover.....	2 pounds

Total.....24 pounds

The following mixture is simpler and has given very satisfactory results:

Orchard Grass.....	8 pounds
Smooth Brome Grass.....	8 pounds
Timothy	4 pounds
Alsike Clover.....	2 pounds

Total.....22 pounds

For the low, poorly drained lands the following mixture is desirable:

Red Top.....	8 pounds
Timothy	6 pounds
Meadow Fescue.....	4 pounds
Alsike Clover.....	2 pounds

Total.....20 pounds

For high lands that are apt to be dry this mixture is recommended:

Smooth Brome Grass.....	12 pounds
Orchard Grass.....	8 pounds

Total.....20 pounds

CERESAN**A Super Dust Disinfectant**

Ceresan is the ethyl mercury chloride dust Disinfectant that has been developed for the effective control of certain seed-borne diseases of wheat, oats, barley, rye, millet and sorghum, such as kffir corn and milo maize.

As a finely ground dust which readily adheres to all seed grains, Ceresan is easily and quickly applied. Ceresan is packed in air-tight containers and, if kept dry, is good until used.

Seed grains treated with Ceresan are covered with a protective coating of Disinfectant which is effective immediately in destroying seed-borne fungi and bacteria and in protecting the seed after planting against rotting caused by certain soil-infesting organisms.

Use $\frac{1}{2}$ ounce of Ceresan to each bushel of wheat, rye, millet and sorghum, and use 3 ounces to each bushel of oats and barley.

1-lb. tin.....	\$.75
5-lb. tin.....	3.00
25-lb. tin.....	12.50

Feed Everything You Grow

with this complete,
 balanced diet

VIGORO
 Complete plant food

**BLUE VITROL**

Used for treating smut on grain, and also is used for treating hoof-rot in sheep.
 1 lb. 15c; 5 lbs. 65c; 100 lbs. \$11.00. Not available.

FORMALDEHYDE

For the prevention of smut on grain; it is easy to apply. One bottle, diluted with 40 to 50 gallons of water, is sufficient to treat thoroughly 30 bushels of wheat or barley for smut; 40 bushels of oats for smut; or 60 bushels of flax for wilt. 1 pint, 50c; 1 quart, \$1.00. Not available.

CARBO

Metallic copper content, 53% to 55%. Ready to use, simply dust on the grain. A superior high quality product for dry treating seed gain for bunt or stinking smut. As a preventative of bunt (stinking smut) in seed wheat use in the proportion of two to three ounces to one bushel. 53% copper, 10 lbs. \$3.00; 18% copper, 5 lbs. \$1.00.

NEST EGGS

These eggs are made from pure sterilized sulphate of lime. They are strong, durable and odorless. They neither break or disintegrate. Price, 5c each; 40c per dozen, postage extra.

SODIUM FLUORIDE

Sodium Fluoride is made especially for poultry and carries the government's direction for applying. It is safe, easy to use, inexpensive and absolutely does the work quickly and effectively. ½ lb. 25c; 1 lb. 40c, postage extra.

THE GIZZARD CAPSULE

This insoluble capsule a triple combination worm medicine—for Round, Tape and Pin Worms—carries clear through to the gizzard, where the capsule is broken up. This method prevents absorption of strong drugs by the mucous membrane of throat, crop and stomach; prevents diluting and weakening of the medicine by mixing with the crop contents. Five times as effective as where worm remedies are given in food or drink.

Adult size for chickens or turkeys half grown or larger: 50-capsule pkg. \$1.00; 100 pkg. \$1.75; 500 pkg. \$7.00; 1000 pkg. \$12.00. Chick size for birds under half grown.

JUST-RITE LAYING MASH

How to Get More Eggs

Hens fed Just-Right Egg Mash will retain their body weight and vitality. They will lay more and larger eggs. The kind of protein used in mash has a direct influence on the size and number of eggs a hen will lay. It has been proven by actual tests that all animal protein in a mash will cause the hens to lay larger eggs and more of them than a mash containing a large amount of vegetable protein. Just-Right Egg Mash does not contain any high vegetable protein. The protein is derived from meat scraps and milk.

The digestibility of a mash is what counts in egg production. Meat scrap and milk are much easier for a hen to digest and assimilate than Soy bean and linseed oil meal. The protein in Just-Right Egg Mash is 17 per cent digestible. 1 to 2 per cent higher than the average mash. You are paying on the average of 5c per pound for protein in your mash. Why pay for more indigestible protein than is absolutely necessary? Remember you get better returns from a pound of animal protein than you do from a pound of vegetable protein. Why pay as much for one as you do the other?

Write for quantity prices.

Laying Mash, protein 20%, fat 40%, fiber 8%. Write for price.

JUST-RITE GROWING MASH

This is the important time in the life of your pullets and the care and feed they are given for the next three months will determine to a great extent when they will lay, how much, and how long.

When chicks are three months old start feeding Just-Right Growing Mash. It contains some meat scraps as well as other important elements for the development of the egg producing organs. Feed this mash until chicks are six months old. Continues growth without interruption and makes early, heavy, long producing layers of your birds.

There is no substitute for EGGS and as the population increases EGGS steadily increase in importance. Feed Just-Right Growing Mash and your profits will increase from laying, paying birds. Write for prices.

Growing Mash, protein 14.50%, fat 4%, fibre 6%. Write for price.

JUST-RIGHT STARTING MASH

The manufacturer constructs his building with but one view in mind, that of making a profit for himself. He builds for durability and efficiency, so we must build our Egg Factory. First we must have a foundation for our flock. Choose a good laying strain from your favorite breed. A good hen costs no more to feed than a poor one, but she will produce a profit, while the poor one may mean a loss. We must choose our feeds for the growing chick just as carefully as we choose materials for any factory. Nature provides food for the chick for the first 72 hours. After that she depends on us for her feed, unless she is with the mother hen.

Any good scratch feed will give very satisfactory results. The mash is more important. You will find in our Just-Right Chick Starter a mash that is cheap only in price. The formula is simple, but has produced wonderful results. It is a perfectly balanced ration for the baby chick, containing all the ingredients necessary for the growth of bone, muscle and feathers. A mash formulated after years of practical experience, to eliminate leg weakness, toe picking or bowel trouble. Tests show less than 2 per cent mortality. Write for prices.

Starting Mash, protein 14%, fat 3.57%, fibre 5%. Write for price.

CHICK SCRATCH FOOD

For chicks three weeks old and over. Like our other feeds, this mixture embraces a fine combination of seeds and grains. It gives the chicks quick growth and tends to keep them in good health. To properly develop the chicks, either for the market or to become producers of eggs, they must be fed such food as will promote growth quickly and uniformly.

MEAT SCRAPS

Meat scraps are rich in protein, the material which makes muscle and lean meat. Contains 50 per cent protein. 100 lbs. \$3.00.

SAV-TH-TURK

**The Germicide (Kills Germs)
and Tonic (Alters Conditions)**

For blackheads, indigestion, cholera, roup, white diarrhea and weak, lifeless conditions and all common trouble among poultry. Price \$1.50 and \$5.00, postage extra.

MEAT MEAL

Very rich in protein. It should be mixed with the soft food. No hides or tankage in our meat meal, but, as the name implies, meat, cooked, dried and ground; unexcelled for egg production. Write for price.

BLOOD MEAL

The most highly concentrated egg producers on the market. To be fed in soft food. Unexcelled forcing growth or as an egg food.

FISH MEAL

A fine-ground, pure, sweet fish meal containing protein—feed as you would meat meal; a rich, wholesome food, 100 lbs. \$3.50.

Prepared especially for poultry; no dust; a good thing for bowel trouble, sour crop and indigestion. Price, 50-lb. sack, \$1.60.

CRYSTAL GRIT

Two sizes, chick and hen size. We send hen size unless otherwise ordered. Price, \$1.00 per cwt.

EPSOM SALTS

For poultry and stock. 10c lb., 3 lbs. 25c; 25 lbs. \$2.00.

**DRIED BUTTERMILK AND
SKIM MILK**

The pure solid content of the liquid buttermilk, with only the water taken out and nothing else added. It contains all the food elements of the liquid buttermilk, but the process of drying puts it in a convenient form that will keep indefinitely and can be hauled long distances with only moderate freight charges. Can be used just when needed and with no waste from spoilage or shipping. 100 lbs. \$5.50.

OLD PROCESS OIL MEAL

Aids digestion and assimilation of food. As it contains 33 to 36 per cent of protein, it is combined with brans and other food so as to make a balanced ration. Improves the health, vigor and appearance of poultry. Write for prices. 100 lbs. \$2.75.

OYSTER SHELLS, CRUSHED

Clean stock, free from dust and waste. Two sizes; coarse and fine. 100 lbs. \$1.40.

COD LIVER OIL

Pure Norwegian Cod Liver Oil. Without doubt the greatest discovery of the past few years for increasing egg production, overcoming soft-shelled eggs and preventing leg weakness. \$1.15 gal., without container; container, 15c extra.

TOBACCO POWDER

It has been found that finely powdered tobacco is a most effective remedy against round worms in poultry. It is uniform in strength and texture and contains not less than one per cent and not more than one and one-half per cent actual nicotine. 15c lb.; 5 lbs. 50c.

FERTILIZER**SULPHATE OF AMMONIA**

Sulphate of Ammonia is the most concentrated nitrogenous top-dressing on the market. Guaranteed 25 per cent ammonia, and containing no borax. It is fine and dry and easily spread by hand or by drill. The crop producing powder of the ammonia is equal to that of any fertilizer. 10 lbs. 65c; 100 lbs. \$3.50.

NITRATE OF SODA

For immediate results Nitrate of Soda is the very best for stimulating and forcing the growth of plants or any other crops. 1 lb. 10c; 10 lbs. 65c; 100 lbs. \$4.50.

SULPHUR

For lime-sulphur solution, fertilizing and general purposes. Finely powdered and 100 per cent pure. Use sulphur in connection with your fertilizers and make your soil give you the highest possible returns. It is a first-class fertilizer, fungicide and insecticide. \$3.50 cwt.

SHRIMP MEAL

An ideal fertilizer for the market garden. It is extensively used by the Chinese gardeners. It only takes a small handful for each plant. 100 lbs. \$3.00 ;ton, \$55.00.

LIME DUST

Fine ground. This is the form of lime recommended by the Agricultural Department. Use ½ to 1 ton per acre. 100 lbs. \$1.00.

SPRAYS EVERGREEN

A non-poisonous insecticide that is as equally effective in both the flower and vegetable garden. Destroys a great number of both chewing and sucking insects without danger of burning the plants, 1½-oz. bottle 35c; 6-oz. bottle \$1.00; pint \$2.00.

BLACK LEAF 40 40 Per Cent Nicotine

Destroys aphids, thrips, leaf hoppers on all trees, bush and vine fruits, vegetables, field crops, pear psylla and similar soft-shelled sucking insects, all without injury to foliage. Combines readily with other sprays. 1 oz., 6 gals. spray, 35c; 5 oz. \$1; 2 lbs. \$3.35.

ARSENATE OF LEAD

(Dry.) For dusting and spraying. Solves the problem of controlling practically all leaf-eating insects in an efficient manner. ½ lb. 20c; 1 lb. 30c; 4 lbs. 80c. Not mailable.

LIME SULPHUR

For dormant spraying in the Fall or early Spring against scale, peach blight, leaf curl and twig borer, uses 9 to 11 tablespoonfuls to 1 gallon of water.

For Summer spraying against scab, scot and blotch, red spider and mites, use from 2½ to 3 level tablespoonfuls to 1 gallon of water. 1-lb. can, 35c. Not mailable.



A NON-POISON- OUS SPRAY

Harmless to man or animals.

Harmless to tender plants

Kills plant insects.

1 oz. 35c

6 ozs. \$1.00

Pt. \$2.00

Mailable.

Postage extra.

PARIS GREEN

A poisonous insecticide in powder form, for insects which chew. ¼ lb. 20c; 1 lb. 60c. Not mailable.

BORDEAUX MIXTURE

Prevents large losses caused by blight, rot, mildew, scab, anthracnose, and certain other fungus diseases, will stimulate plant growth and greatly increase the harvest. On most trees, shrubs and vegetable plants use 8 level tablespoonfuls to 1 gallon of water. 1 lb. 45c; 5 lbs. \$1.75. Not mailable.

SECURITY CALF MEAL

This calf meal of milk-equal, when mixed with skim milk or water to the proper consistency, is very similar to milk and contains all the elements of milk—protein, fat, and fiber, moisture and ash in the correct proportion. Every pound makes a gallon of sweet, wholesome milk-equal. It costs less than milk. 1 lb. 25c; 3½ lbs. 75c; 12 lbs. \$2.50; 25 lbs. \$4.75; 100 lbs. \$18.00.

American Dairy Association Remedies KOW KARE

Kow Kare (originally Kow Kure) is different from anything ever discovered for cow troubles. It is the only cow medicine that is strictly for cows only. It is not a stock food, but a scientific remedy especially for cow diseases, such as Barrenness, Scours, Milk Fever, Caker, Udder, Bloating, Red Water, Swelling of Bag, etc. It prevents abortion and removes retained afterbirth. It tones up the system, renews vitality, restores appetite to cows that are "off feed" and keeps them healthy. It increases milk flow, and enables the cows to produce strong, vigorous calves. It is the dairyman's gold mine, and a sure profit-payer. Medium cans, mail wt. 2 lbs., price 65c; larger cans, mail wt. 4 lbs., \$1.25, postage extra.

BLATCHFORD'S CALM MEAL

The Complete Milk Equal is in reality a substitute for milk—and should not be

considered as an ordinary "feed" or "meal". It contains all the elements of milk—"baby food" for calves, absolutely the only milk substitute that contains in proper proportion the elements necessary for rapid and healthy growth, and the only calf meal that is cooked and prepared for easy digestion. 100 lbs. make 100 gallons of Complete Milk Equal. 25-lb. bag, \$1.25; 50 lbs. \$2.40; 100 lbs. \$4.75.

SA-COW

For shy breeding cows, cows failing to come in heat, retained afterbirth, cows that do not produce as they should, white scours and flu pneumonia among the calves or premature calves (abortion). 1-lb. can, \$1.50; 5 lbs. \$5.00, f. o. b. Boise.

BAG BALM

A soothing, penetrating ointment for all affections of the bag. Wt. 8 oz. pkg. 60c; postage extra.



Germaco HOTKAPS—"individual hothouses for every plant"—are made of waxed paper in the form of a cone which completely covers the plants—the only way to fully protect them from frost. HOTKAPS also protect against rain, wind, ground crusting and insects—your assurance of faster growing, hardier plants, with larger yields and greater profits, because you market earlier.

HOTKAPS are inexpensive to use. One man can "set" over 2500 of them per day. Write us now about this money-making crop necessity, or simply order your season's supply now.

Prices: 100 lots, \$1.25; 1000 lots, \$9.50; 5000 lots, \$9.25 per M; 250 Trial Package, including Garden Setter with Tamper, \$4; Germaco Hotkap Steel Setter with Tamper, \$2.50, postage extra.

Weights: 1000 package HOTKAPS, 28 lbs.; 250 package, 9 lbs.; 100 package, 5 lbs.; Steel Hotkap Setter, 3 lbs.

Earlier to Market

FOR HIGHER PRICES WITH
Germaco

Hotkaps



Fresh each Year
High Germ Count

INOCULATE YOUR LEGUMES

Alfalfa, Clovers, Lespedeza, Soy Beans, Cow Peas

Beans, Vetch, Peas . . with

The Original Legume Inoculator

NOBBE-HILTNER PROCESS



REDUCED TO

65c per bu. size—Alfalfa, Clovers, Lespedeza

50c per bu. size — Peas, Vetch, Beans,
Aust. W. Peas

35c per bu. size—Soy Beans, Cow Peas

NEW REDUCED NITRAGIN INOCULATION PRICES

When ordering always specify kind of seed.

Alfalfa, all Clovers^s Lespedeza

Size	Price
1/2 bu.	\$.35
1 bu. ....	.65
2 1/2 bu.	1.40

Soy Beans, Cow Peas

Size	Price
1 bu.	\$.35
2 bu. ....	.65
5 bu.	1.40
10 bu.	2.45

Peas, Vetch, Beans, Austrian Winter Peas

Size	Price
1/2 bu.	\$.35
1 bu. ....	.50
*1 2/3 bu. ....	.80
5 bu.	2.25

*"100 lb. size" pack-
ed only for Vetch
and Peas.

Garden NITRAGIN for Peas, Beans, Sweet Peas and Lupines

Can be used on
any amount of
seed, up to 8 lbs.
Price 25c

YOU CAN NOW AFFORD TO INOCULATE ALL YOUR
LEGUMES WITH DATED, HIGH COUNT NITRAGIN.

For your protection, because Legume Germs are PERISH-
ABLE, every package of NITRAGIN bears the Expira-
tion DATE as well as the Germ COUNT when packed,
and the PRICE.

NITRAGIN guarantees Billions of live, fresh and efficient
Legume Germs in every package—tells you what you are
buying—guarantees full measure. NITRAGIN is always
reliable—has served the American Farmer since 1898.

NITRAGIN EASY TO APPLY

NITRAGIN is a regular, MOIST, soil-like culture packed
in tins. Easy to apply. Directions on every can.

NITRAGIN—The Original Legume Inoculator—is the
lowest priced, high quality inoculator
on the market.

ALWAYS THE LARGEST—and most widely distributed inoculator in the U. S. A.

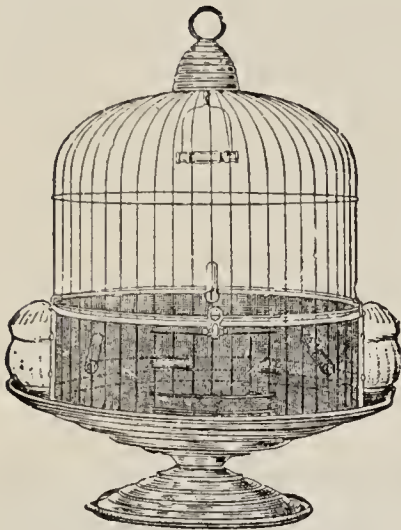
Try This New Food
CANARY MIXTURE
SPRATT'S EGG, FRUIT AND SEED

Totals unlike any other mixture prepared for regular canary feeding. Spratt's Egg, Fruit and Canary Seed Mixture offers the bird a delightful and wholesome change. The quality of the European Canary Seed, sweet Summer rape and other seeds forming the blend, is unsurpassed and the addition of egg-flake and fruit makes it perfect. Its regular use (alternated occasionally with Spratt's Cod Liver Oil Cage Bird Food) must result in improved beauty, health and song. Pkt. 25c.



BIRD CAGES

All steel, durably constructed, attractively finished, spot welded cages with stands to match. Two-tone Enam-eled Finish Colors: Green and black, tan and black. F. O. B. Boise.



- Cage, 10 in. diam., 15 1/4 in. high.....\$2.25
- Stand, 64 3/4 in. high.....\$2.25
- Outfit complete\$3.75
- Polished Brass Stand
- Half Moon\$3.50
- Full Moon..... 4.00

Brackets 20c; single springs, 15c; double springs, 25c; opal glass seed cups, 15c; Ivory Pyralin seed cups, 20c; colored pyralin seed cups, 25c; opal bathtubs, 20c; perches, 10c; cuttlebone holders, 10c; wire nests, 15c; postage extra.

CAGE BIRDS WANT SPRATT'S
"SING-SONG"

- An appetizing food and pick-me-up for all songsters. 15c; 2 for 25c.
- Bulk Mixed Bird Seed, recleaned. Per lb. 20c; 10 lbs. \$1.75.
 - Canary Seed, recleaned. Per lb. 20c; 10 lbs. \$1.75.
 - Hemp, recleaned. Per lb. 20c; 10 lbs. \$1.75.
 - Rape, Sweet Summer. Per .b. 20c; 10 lbs. \$1.75.
 - Millet, recleaned. Per lb. 10c; 10 lbs. 90c.
 - Bird GravelPer lb. 5c
 - Bird Manna.....Per. pkg. 15c; per doz. \$1.75
 - Cuttlebone2 for 5c
 - Bird Tonic.....Each 15c
 - Spratt's Song Restorer.....Each 15c
 - Bird Lice Destroyer and Gun, price 25c
 - Nestling Food, price.....15c-25c
 - Coloring Food, package, price.....25c
- Postage extra.

SPRATT'S FOODS FOR DOGS

Spratt's Meat Figrine Dog Cakes—For sixty years the standard dog food, used by the leading breeders and fed at the principal dog shows throughout the world. The best results are obtained by giving the



biscuits dry, not soaked, thereby compelling the dog to gnaw the food and thus producing a copious flow of saliva which materially aids digestion. 1 lb. 15c. Postage extra.

Spratt's Fibo—A unique granulated food, containing a large percentage of Spratt's world-famous Meat Fibrine. It is very appetizing and highly recommended for shy and dainty feeders, as a change of diet or as a suitable food for any dog at any time. Can be given either dry or soaked. 1 lb. 20c; 2 lbs. 35c; 6 lbs. \$1.00;. Postage extra.

Spratt's Ovals—The Pocket Dog Biscuit—A small Meat Fibrine dog biscuit of superior quality. Appreciated by small, medium and large breeds. A few of these diminutive dog cakes can be carried in the pocket when on a ramble with the dog. 1 lb. 15c. Postage extra. Write for quantity price.

Spratt's Cod Liver Oil Cakes—Extremely valuable aid to convalescence of sick dogs, for old dogs and for puppies not making due progress. Dogs eat them without coaxing. 1 lb. 20c; 2 lbs. 35c. Write for quantity prices.

Spratt's Charcoal Biscuits (Oval Size)—These biscuits are quite easily edible. The charcoal absorbs impure gases in stomach and intestines and acts as a corrective of internal ailments, fetid breath, etc. A few charcoal biscuits given regularly each week will be found an excellent safeguard against canine ills. 1 lb. 20c; 2 lbs. 35c.

SPRATT'S DOG REMEDIES

- Sulfur Tablets.....50c
 - Tablets for Constipation.....50c
 - Nerve Sedative Tablets.....50c
 - Dip Disinfectant, 4 ozs.....25c
 - Ear Canker Ointment.....50c
 - Flea Powder15c and 30c
 - Laxative Tablets50c
 - Mange Medicine75c
 - Tonic and Condition.....50c
 - Tape Worm Tablets.....50c
 - Worm Capsules50c
 - Worm Capsules, Puppies and Toy Dogs 50c
 - Special Tablets, Distemper.....75c
- Postage extra.

CAL-O-RATION

The Wonder Meat Food

For Dogs, Cats or any Carnivorous Animal
CAL - O - RATION is a cooked, canned meat product, ready to feed, containing meats, cereals, vegetables and oils. It contains the necessary vitamins and the proper amount of calories necessary for the proper development of any species of dogs, cats or foxes. The amount to feed is regulated by the size of the animal. 1 lb. can 10c; postage extra.

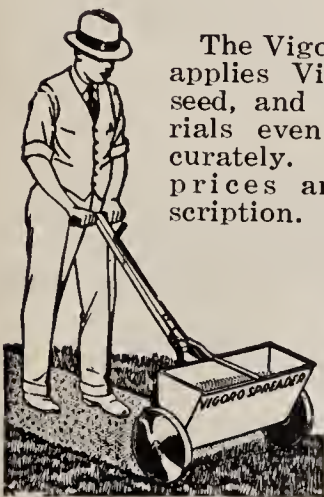


ALL PLANT LIFE MUST HAVE FOOD

Plants, like human beings, require a balanced diet for normal, healthy growth. The lack of a single essential element may be the limiting factor in their growth. Vigoro, the complete, balanced plant food, contains the right amount of each food element necessary to produce rich green, velvety lawns; large, beautiful flowers; healthy, full foliaged trees and shrubs, and early, delicious vegetables. It is "the square meal for all plants."

*A square meal for
lawns and flowers
is 4 lbs. of Vigoro
per 100 sq. ft.*

100-lb. Bag \$4.50
50-lb. Bag 2.75
25-lb. Bag 1.00
5-lb. Bag .50
12-oz. Bag .10
F. O. B. Boise



The Vigoro Spreader applies Vigoro, grass seed, and other materials evenly and accurately. Write for prices and full description.

Clean, odorless and economical. Vigoro is easy to use. Simple directions for feeding everything you grow accompanying each bag or package. Vigoro is used annually on 3,000,000 homes. We recommend it.

VIGORO

Complete plant food

A Product of Swift & Co.



SPERRY'S SURELIVE MASH

The most completely tested chick mash in the West—SPERRY FARM TESTED SURELIVE develops chicks into strong, sturdy layers at a low cost. It offers:

Twenty-five per cent heavier chicks at six weeks. Uniform growth. A striking feed cost saving per pound of bird weight. More chicks raised. Quick start with vigorous chicks, insuring pullets that stand up under heavy laying. 11.2 per cent less feed required. Saving in time and labor. Simplicity in feeding schedule—no fussing with liquid milk—no cleaning containers—no charcoal. Elimination of raising and cutting succulent greens. Correct mineral balance.

It is these nine points that spell the difference between ordinary feeds and methods and FARM TESTED SPERRY SURELIVE, with more chicks, sturdier chicks, bigger boned, bigger bodied, better feathered chicks and MORE PROFITS for the poultryman.

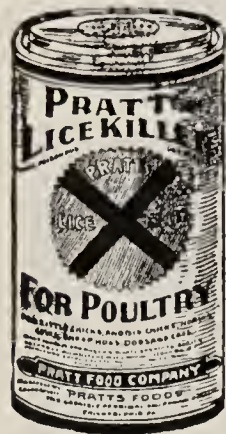
Surelive Starting Mash, Growing Mash, Scratch Feed—Write for prices.

FOR HEALTH AND EGGS—POULTRY REGULATOR



supplies the minor necessities that build up vitality, promote sound digestion and puts your fowls in robust condition for heavy egg laying and blue ribbon winning. Pratt's Poultry Regulator added to any mash makes more eggs.

Given to breeding stock it increases the fertility of the eggs, increases their hatchability and insures sturdy chicks. Pratt's Poultry Regulator is not a dope or stimulant, but an absolute necessity. In use for over 50 years and guaranteed to give satisfaction. 4-lb. pkgs. 65c; 12-lb pkgs. \$1.75.

Powdered
Lice Killer

A powerful, effective product that kills lice on chicks and chickens of all ages. Use it in nests, dust baths, incubators and brooders and dust it on the birds themselves. It is also used to rid horses, cattle, hogs, dogs and cats of lice and fleas. Rids houses of roaches. Can be used wherever an economical and powerful powdered lice killer is needed. Fully guaranteed. In 30c and 60c sifter-top cans.

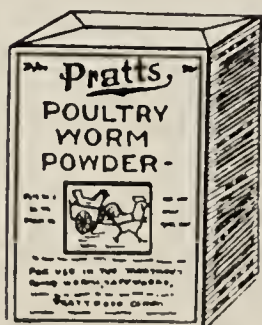
Roup Remedy
(Tablets or Powder)

Every poultry keeper should have a package of Pratt's Roup Remedy on hand. Roup acts quickly, but this remedy will prevent or quickly cure it.



Powerful, safe, economical, easy to use; it is quickly absorbed by the blood, reduces fever, allays inflammation. Use it beforehand as a preventive for roup, colds, catarrh and bad weather diseases. Put up in tablet form for individual or flock treatment and in powder form for use in large flocks. Small size 30c; large 60c.

Poultry Worm Powder



Rids poultry of round, tape and thread worms, is safe, sure, easy to use, and costs only a little over one cent to treat a fowl. 2-lb. pkt. 60c; 25 lbs. \$3.75.

Disinfectant



Use it regularly to spray the chicken house roosts, dropping boards and fixtures and your disease troubles will vanish.

It is three times as powerful as crude carbolic acid, yet it is cheap, safe, non-poisonous.

Pratt's Poultry Disinfectant is a deodorizer, germicide, and liquid lice killer. A gallon makes a barrel of powerful disinfecting solution. Use it to aid in relief of roup, colds and other contagious diseases. Qt. can 75c; 2-qt. can \$1.25.

Pratt's Roost Paint

Pratt's Roost Paint is an improved nicotine sulphate formula. It is stronger and has lasting qualities superior to those of any other similar product on the market.

Just paint the top of the roosts and cross-arms with Pratt's Roost Paint and the job is done. You don't handle the bird. There is no grease, liquid or powder to be rubbed in, sprayed or dusted on to every bird.

A few strokes with a paint brush and you can easily delouse your entire flock whether you have 50 or 5000 birds. 1/2 pt. 75c; 1 pt. \$1.25; 1 qt. \$2.00.

N-K TABLETS

Fresh, powerful Nicotine and Kamala, encased in a special insoluble coating which, when crushed by grit in gizzard, releases contents into intestines, quickly killing round and tape worms. A guaranteed individual treatment.

ADULT SIZE

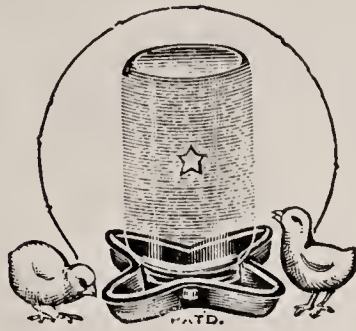
Pkg. 50 tablets.....	\$.75
Pkg. 100 tablets.....	1.25
Pkg. 500 tablets.....	5.00

CHICK SIZE

Pkg. 50 tablets.....	—
Pkg. 100 tablets.....	—

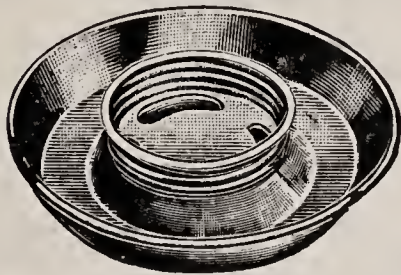
STAR CHICK FOUNT

Made of a single piece of heavy metal. No solder, no seams, no loose parts. Suitable for feed as well as water. The little chicks can't drown. Fits any Mason jar in 1 pint, 1 quart and 2 quart sizes.



No. 32. (Glass jar not included.)
Each10c

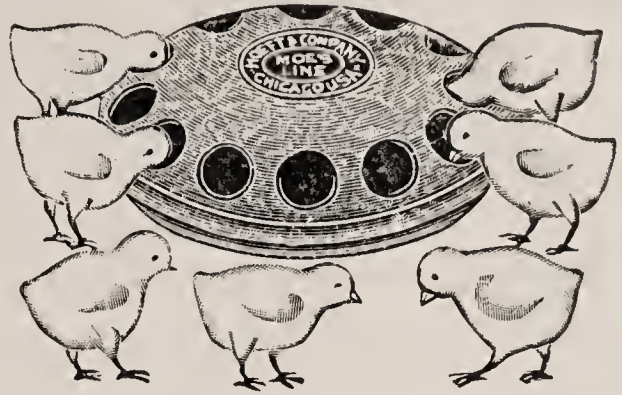
ROUND JAR FOUNTAINS



Moe's Round Mason Jar Fountains, made of heavy terne plate, a rust-resisting metal, and the finest fountain of its kind on the market. No solder used in its construction.

Made in one size and fits any Mason jar in sizes 1 pint, 1 quart and 2 quarts. (We do not furnish the glass jars.) Diameter 6 in. Each 10c; dozen \$1.20.

ROUND CHICK FEEDERS



A great feed saver, and can also be used for water or milk. Accurately stamped with dies. Top fits snugly, yet is easily taken off for filling and cleaning.

No. 11—Diam. 6 in. with 8 holes, each..15c

No. 12—Diam. 8 in. with 12 holes, each 25c

LARGE CAPACITY FEEDERS



Fine feeders for growing stock, ample capacity and great time and labor savers. Two sizes.

No. 140—Length 21 in., holds 10 qts.
32 feeder holes. Each.....90c

No. 141—Length 35 in., holds 17 qts.
54 feeder holes. Each.....\$1.50

BRIGHT TIN BUTTERMILK FEEDERS



Feeding troughs in tin plate. Sliding top, easy to clean. No seams, rivets or solder. Clean, sanitary feeders.

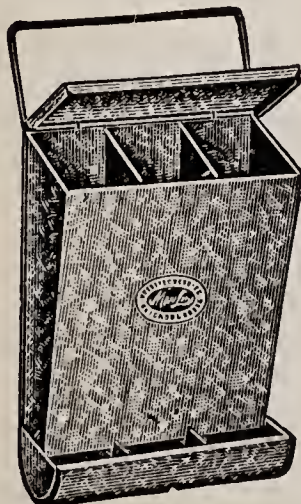
No. 137—Length 10 in., 10 feeder holes.....Each 25c; dozen \$3.00

No. 138—Length 20 in., 20 feeder holes.....Each 35c; dozen \$4.20

GRIT BOXES

Economical and practical for feeding grit, shells, etc.

Thoroughly well made, no solder used in their construction.



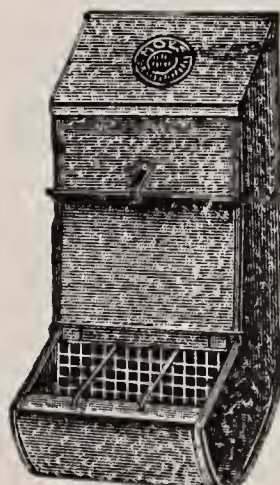
No. 9, three compartments, each.....75c

DRY MASH HOPPERS

A strictly high-quality hopper, properly designed. The curved bottom keeps the feed in easy reach, and the taper shape of the hopper prevents the feed from clogging. Height 19 inches.

No. 13, width 18 in., each.....\$2.10

No. 37, width 24 in., each.....\$2.50



COLORED LEG BANDS



Best quality. Made of Celluloid in six sizes and ten colors — white, black, dark blue, light blue, red, pink, garnet, green, yellow and purple.

12 Bands	\$.15
25 Bands .....	.25
50 Bands .....	.40
100 Bands .....	.65
500 Bands	3.00
1000 Bands	5.75

ALUMINUM LEG BANDS



No. 130 — Aluminum, with extra large raised numbers. Easy to read, adjustable for any size fowl. Applied quickly.

Pkg. of.....12	25	50	100	500	1000
Price .....	.15	.25	.45	.75	3.50 6.00

CYCLONE HAND SEEDER

The Cyclone Seeder will distribute the seed perfectly even and will not throw it in an upward direction or against the operator, but directly and evenly to the ground.

The machine is supplied with a patented interlock, double flage, non-solder feed adjustment so that the seed can be let on or shut off instantly.

Price \$2.25, postage extra.

BLUE FLAME OIL BROODER

A simple and reliable oil-burning Brooder, sturdy in construction and easy to operate. Burns kerosene.

Has a new and improved wickless blue flame burner, with perfect combustion, free from fumes or gases.

It is the same as our Automatic Oil Brooder except that it does not have the automatic thermostatic control, and the canopy is not insulated.

Has a patented hand control, with only one moving part, and by means of which the heat is regulated.

The fuel feed pipe is protected by a stamped steel housing, and the oil feeds from the glass reservoir into a concave metal pan attached to the feed pipe.

The canopy is of heavy galvanized steel, in sections, easy to assemble, and fitted with substantial metal legs. In three sizes. 1000-chick capacity, \$13.00; 500-chick capacity, \$12.00; 300-chick capacity, \$10.50.

TYCOS INCUBATION ZONE THERMOMETER

A most popular style instrument. Made with mercury-filled tubes only. Can be used with or without stand.

Price, each\$1.00

BROODER THERMOMETER

Hangs inside of brooder. Price, each, 65c. Add 5c for postage.

HAND WEEDERS



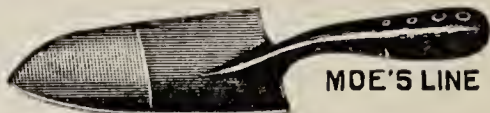
No. 87 — Hand Weeder, made of one piece of hard, stiff steel. Price, each.....20c

DANDELION WEEDERS



No. 88—Dandelion Weeder, made of one piece of hard, stiff steel; 8-in. blade. Price, each20c

GARDEN TROWELS



Made of heavy pressed steel all in one piece and practically indestructible. Price, each20c

TRANSPLANTING TROWELS



Price, each20c

CLAW WEEDERS



Five-fingered Weeder, each.....20c

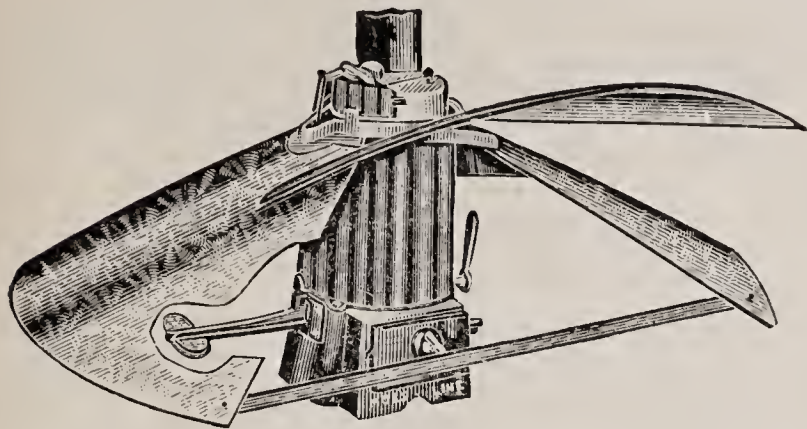


No. 5792—TYCOS BROODER THERMOMETER

For insertion through hole in top or side of brooder. The scale is on the outside in full view—the bulb inside in actual brooder temperature.

Price, each, 75c. Add 5c for postage.

MOE'S AUTOMATIC CONTROL BROODER STOVE



Moe's Coal Burning Colony Brooder provides an even, continuous and correct temperature at all times. Gives the chickens an abundance of pure, fresh air, with ample room for them to get sufficient exercise.

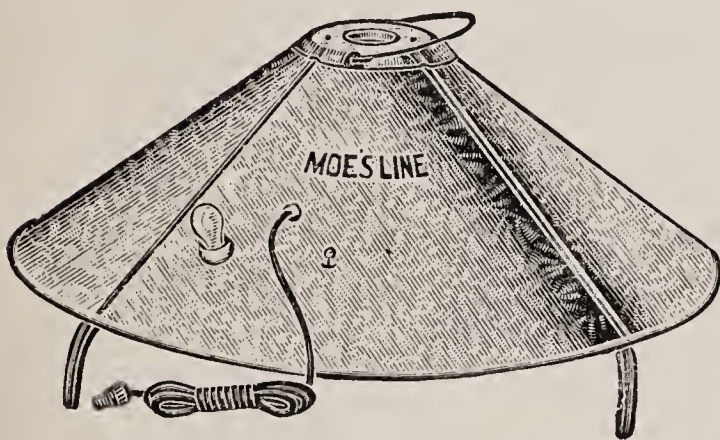
It has the latest improved **double-draft** check dampers and is self-regulating and requires but little attention.

The stove has a large, deep, **corrugated** fire pot, and burns most any kind of fuel, but we recommend hard coal in chestnut size. The fire bowl is of heavy cast iron and is wider at the base than at the top, allowing the fuel to feed freely without danger of clogging, and insuring an even, well distributed fire. The **corrugated** design greatly increases the amount of heat radiated.

The **grate** is in two sections, rocker type, center dump, making it easy to keep a clean, bright fire at all times.

Automatic Control—The fire is automatically regulated by twin thermostats which open and close both the draft and check dampers. Easily adjusted to any desired degree of heat, and after adjustment at the beginning of the season needs no further attention.

The **canopy** is of heavy galvanized steel, completely assembled, and mounted on a cast collar with a wide door or panel, hinged at the top, giving easy access to any part of the stove. 500-chick capacity, \$16.45; 1000-chick capacity, \$20.30.



MOE'S ELECTRIC BROODER

Highly Efficient, Clean and Economical Brooders, which operate from an ordinary electric light circuit. Have a specially constructed heating unit, easy of access and meets the underwriters' requirements as to line voltage and breakdown tests.

Gives an even, continuous heat properly distributed to insure the comfort and health of the chicks.

Automatic Control—The heat is constantly regulated by a simple and dependable automatic thermostatic control. This can be set at any desired temperature and automatically maintains this temperature under all conditions without any further attention.

The **canopy** is of heavy galvanized steel with smooth wire-bound bottom edge, made in interchangeable sections and securely bolted together. Fitted with solid substantial stamped steel legs which cannot break.

Each Brooder is complete with thermometer, electric cord and attachment to connect to an electric light socket. For 110-volt light circuit.

Full directions with each Brooder. Made in three sizes.

1000-chick capacity, 52-inch canopy, rated watts 500, shipping wt. 40 lbs. Price \$19.50.

500-chick capacity, 42-inch canopy, rated watts 400, shipping wt. 30 lbs. Price \$17.50.

TOPZOL

NON-POISONOUS RAT KILLER

The surest and safest exterminator you can use. Harmless to humans and domestic animals.

NEW, SAFE, SURE AND SANE EXTERMINATOR

TOPZOL: A new exterminator that is non-poisonous to humans, domestic animals, poultry, dogs or cats; but will kill rats and mice quickly. TOPZOL drives them outdoors to die. Numerous materials and contrivances have been designed for the destruction of rats and mice, but few of them have proved to be of outstanding usefulness. Pk. 25c.

SMITH NO. 22 BANNER COMPRESSED AIR SPRAYER

Full 4-gal. heavy galvanized steel, heavily corrugated. Each Sprayer is double tested and thoroughly inspected before shipping.

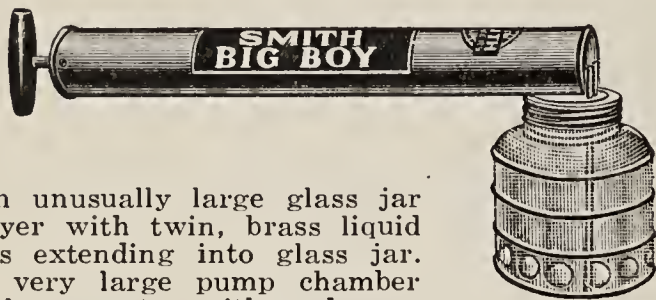
The tank of the Banner Sprayer is made of extra guage metal, weighing from 1 to 1½ pounds more than any other similar tank, which makes the tank much more durable for long service. It will resist strong acids such as are used in Arsenate of Lead or Bordeaux Mixture much longer than a tank made of lighter guage metal.

The 2-inch diameter seamless brass pump cylinder is provided with a heavy brass head and with an oil and chemical resisting brass check valve. The pump unscrews from tank, which leaves a large opening for easily filling tank. All parts easily taken apart if desired.

Brass, non-clog nozzle throws a large, broad mist or long distance spray and is easily taken apart.

Price, each \$6.75.

SMITH NO. 20 BIG BOY GLASS SPRAYER



An unusually large glass jar sprayer with twin, brass liquid tubes extending into glass jar. The very large pump chamber enables operator with each easy stroke to throw an exceptionally large, broad, misty spray.

SMITH JUSTRITE COMPRESSED AIR SPRAYER

Galvanized steel. The size of the Justrite makes it very useful for spraying the garden, flower beds, shrubbery, and for spraying disinfectants and white-wash in poultry houses, stables and cellars.

Price, 2½-gal. size, \$4.50.

E-Z-BOS STOCK SPRAYER

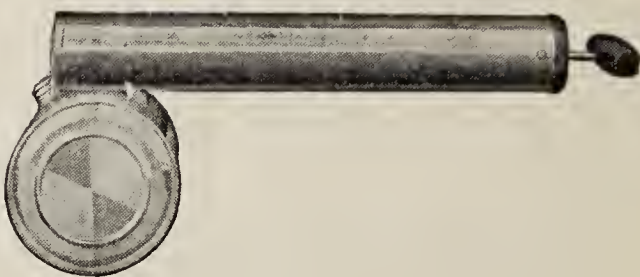
Stainless, odorless, transparent. Kills, repels—will not taint milk.

Leads the world, because it is a stainless livestock spray, guaranteed to kill flies, lice and mites, and will not blister, discolor or mat the hair or taint the milk. Also an aid as a disinfectant.

Will kill flies, lice and mites quicker and repel them longer. It is the dairyman's greatest comfort. Spray lightly is all that is needed.

1-gal. can, \$1.10; 5-gal. can, \$5.00.

AUTO SPRAY NO. 9 AND 3



Here is a well-built atomizer made of heavy tin. Single acting and capable of throwing a fine misty spray. Pump is fitted with oil-treated durable leather cup. No. 9, ¾ pint, 35c; No. 3, 1 quart, 50c.

REFERENCE TABLES

Quantity of Seeds to produce a given number of plants and to sow an acre.

	Quantity per Acre
Artichoke, 1 oz. to 500 plants.....	6 oz.
Artichokes—White French.....	8 bu.
Asparagus Roots.....	7500
Barley.....	2 to 2½ bu.
Beans, dwarf, 1 lb. to 100 ft. of drill.....	1 bu.
Pole, 1 lb. to 100 hills.....	½ bu.
Beet, Garden, 1 oz. to 100 ft. of drill.....	6 to 7 lbs.
Mangel, 1 oz. to 100 ft. of drill.....	5 lbs.
Broccoli, 1 oz. to 2,000 plants.....	4 oz.
Brussell Sprouts, 1 oz. to 2,000 plants.....	4 oz.
Broom Corn in drills.....	15 lbs.
Buckwheat.....	½ to 1 bu.
Cabbage, 1 oz. to 2,000 plants.....	8 oz.
Carrott, ½ oz. to 100 ft. drill.....	3 lbs.
Cauliflower, 1 oz. to 2,000 plants.....	3 to 4 oz.
Celery, 1 oz. to 5,000 plants.....	4 oz.
Cheat.....	2 bu.
Chicory.....	4 bu.
Clover, Alsike and White.....	8 to 10 lbs.
Alfalfa.....	15 to 20 lbs.
Crimson Arefoil.....	10 to 15 lbs.
Collards, 1 oz. to 2,000 plants.....	4 oz.
Corn, Pop (shelled).....	8 to 10 lbs.
Sweet or Field, hills.....	12 to 15 lbs.
For soiling drills.....	3 bu.
Cress ¾ oz. to 100 ft. drill.....	1 lb.
Cucumber, 1 oz. to 100 hills.....	2 to 3 lbs.
Egg Plant, 1 oz. to 2,000 plants.....	4 oz.
Emmer.....	100 lbs.
Endive, ¾ oz. to 100 ft. drill.....	4 lbs.
Flax, broadcast.....	¾ bu.
Grass—	
Kentucky Blue, for pasture.....	1 to 2 bu.
Kentucky Blue, for lawns.....	100 lbs.
Meadow Fescue.....	1 bu.
Mixed Lawn.....	5 to 6 bu.
Red Top, Chaff.....	1 to 2 bu.
Red Top, solid seed.....	10 to 15 lbs.

	Quantity per Acre
Grass—Continued	
Timothy.....	10 to 15 lbs.
Orchard, Perennial Rye.....	1 to 2 bu.
Wood Meadow.....	1 bu.
Horseradish Roots.....	15,000 to 25,000
Kale, 1 oz. to 2,000 plants.....	4 oz.
Kaffir Corn, in drills.....	6 to 10 lbs.
Kohl Rabi, 1 oz. to 2,000 plants.....	4 oz.
Leek, 1 oz. to 100 ft. of drill.....	4 lbs.
Lettuce, 1 oz. to 150 ft. of drill.....	3 lbs.
Mushroom Spawn.....	1 brick to 10 sq. ft.
Millet—for Seed.....	20 lbs.
For Hay.....	20 lbs.
Melon, Musk, 2 oz. to 100 hills.....	2 to 3 lbs.
Water, 4 oz. to 100 hills.....	3 to 4 lbs.
Oats.....	2 to 3 bu.
Okra, 1 oz. to 100 ft. of drill.....	8 lbs.
Onion Seed, for sets.....	60 to 85 lbs.
1 oz. to 150 ft. drill.....	3 to 4 lbs.
Onion Sets, 1 qt. to 40 ft. drill.....	8 bu.
Parsnips, 1 oz. to 150 ft. drill.....	3 lbs.
Parsley, 1 oz. to 150 ft. drill.....	3 lbs.
Peas, Field.....	2 bu.
Garden, 1 lb. to 100 ft. drill.....	1 to 2 bu.
Pepper, 1 oz. to 1,000 plants.....	2 lbs.
Potatoes.....	10 bu.
Pumpkin, ½ lb. to 100 hills.....	3 to 5 lbs.
Radish, 1 oz. to 100 ft. drill.....	10 lbs.
Rape.....	3 to 5 lbs.
Rye.....	1½ to 2 bu.
Salsify, 1 oz. to 100 ft. drill.....	6 to 8 lbs.
Spinach, 1 oz. to 100 ft. drill.....	8 to 10 lbs.
Sugar Cane, in drills.....	10 lbs.
Sunflower.....	8 lbs.
Squash, Summer, 4 oz. to 100 hills.....	3 lbs.
Winter, 8 oz. to 100 hills.....	4 lbs.
Tomato, 1 oz. to 2,000 plants.....	4 oz.
Tobacco, 1 oz. to 4,000 plants.....	3 oz.
Turnip, 1 oz. to 150 ft. drill.....	2 to 3 lbs.
Vetches.....	1½ to 2 bu.
With Grain.....	1 bu.
Wheat.....	1¼ to 2 bu.

	WEIGHTS OF VARIOUS ARTICLES
	Per Bushel
Artichokes.....	60 lbs.
Barley.....	48 lbs.
Beans.....	60 lbs.
Buckwheat.....	48 lbs.
Blue Grass—	
Kentucky.....	14 lbs.
English.....	24 lbs.
Canary Seed.....	60 lbs.
Cheat.....	34 lbs.
Clover Seed.....	60 lbs.
Corn, Shelled.....	56 lbs.
Charcoal.....	22 lbs.
Emmer.....	40 lbs.
Flax Seed.....	56 lbs.
Grass Seeds (unless otherwise stated).....	14 lbs.
Hemp Seed.....	44 lbs.
Hungarian Millet.....	48 lbs.
Lawn Grass.....	20 lbs.
Meadow Fescue.....	24 lbs.
Millet.....	50 lbs.
Oats.....	32 lbs.
Onion Sets.....	32 lbs.
Orchard Grass.....	14 lbs.
Peach Pits.....	48 lbs.
Peas, Smooth.....	60 lbs.
Peas, Wrinkled.....	50 lbs.
Perennial Rye.....	20 lbs.
Potatoes.....	60 lbs.
Rape.....	60 lbs.
Rye.....	56 lbs.
Red Top.....	14 lbs.
Red Top, Solid Seed.....	42 lbs.
Timothy.....	45 lbs.
Vetches.....	70 lbs.
Wheat.....	60 lbs.

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Sterling Seeds That Grow

